



Weatherford[®]

**CML MESSENGER SHUTTLE
COMPACT ARRAY INDUCTION
LOG**

COMPANY **DORADO E&P PARTNERS, LLC.**
 WELL **PREISSER 25-9-6-1H**
 FIELD **WILDCAT-MISSISSIPPIAN**
 PROVINCE/COUNTY **RENO**
 COUNTRY/STATE **USA / KANSAS**
 LOCATION **150' FSL & 2080' FWL**
SW SE SE SW

SEC **6** TWP **25S** RGE **9W** Other Services
 MDN/MPPD
 CMI
 API Number **15-155-21595-01**
 Permit Number
 Permanent Datum G.L., Elevation 1721 feet
 Log Measured From **KB**
 Drilling Measured From **K.B.**

Date	12-SEP-2012	Elevations:	KB	1733.00
Run Number	ONE	DF	1733.00	
Depth Driller	8350.00	GL	1721.00	
Depth Logger	8306.00			
First Reading	8300.00			
Last Reading	4426.00			
Casing Driller	4426.00			
Casing Logger	4426.00			
Bit Size	6.125			
Hole Fluid Type	WATER			
Density / Viscosity	8.50 g/c3			
PH / Fluid Loss	9.70			
Sample Source	FLOWLINE			
Rm @ Measured Temp	2.46 @ 77.0			
Rmf @ Measured Temp	1.96 @ 77.0			
Rmc @ Measured Temp	2.88 @ 77.0			
Source Rmf / Rmc	CALC			
Rm @ BHT	1.51 @125.0			
Time Since Circulation	1 HOUR			
Max Recorded Temp	125.00			
Equipment Name	COMPACT			
Equipment / Base	18064			
Recorded By	C. GRIFFIN			
Witnessed By	D. WHEELER			
S.O. #	3536666			

BOREHOLE RECORD

Last Edited: 11-SEP-2012 20:45

Bit Size inches	Depth From feet	Depth To feet
6.125	4426.00	8350.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
INTERMED	7.000	0.00	4426.00	26.00

REMARKS

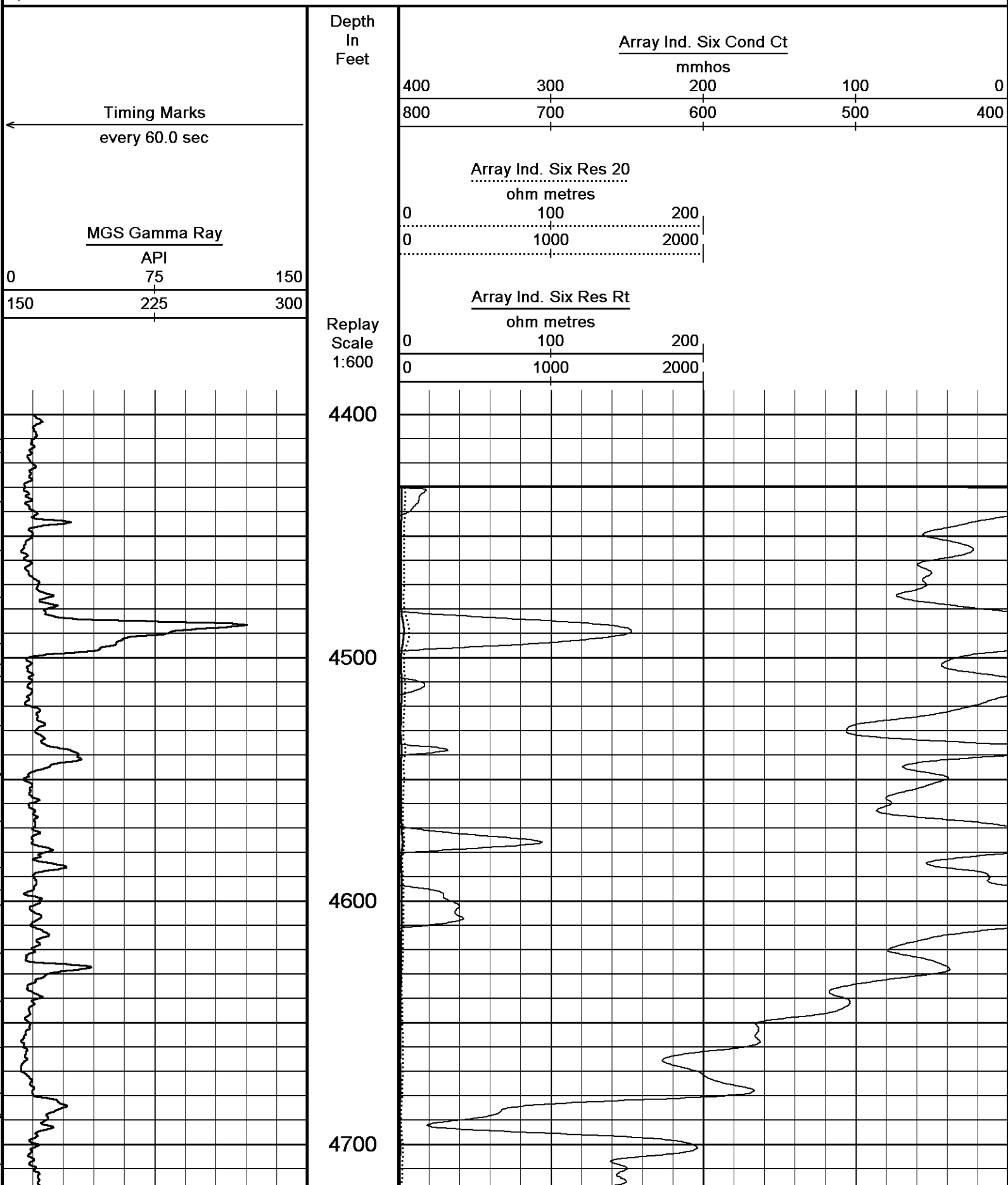
WLS SOFTWARE VERSION 13.02 USED.
 TOOLS RUN ON DRILLPIPE USING COMPACT WELL SHUTTLE DEPLOYMENT TECHNIQUE.
 DEPTH MEASURED USING ADVANTAGE RIG DEPTH CORRECTED TO PIPE TALLY
 TOOLS DEPLOYED WITH MULE SHOE SITTING AT 8205 FT.
 AFTER DEPLOYMENT LOGGING TOOL WAS AT 8306 FT.
 4.5 " PRODUCTION CASING USED TO CALCULATE ANNULAR HOLE VOLUMES.
 OPERATORS: D. TURNER, C. HAWKINS
 S.O. # 3536666
 RIG: DUKE DRILLING 20

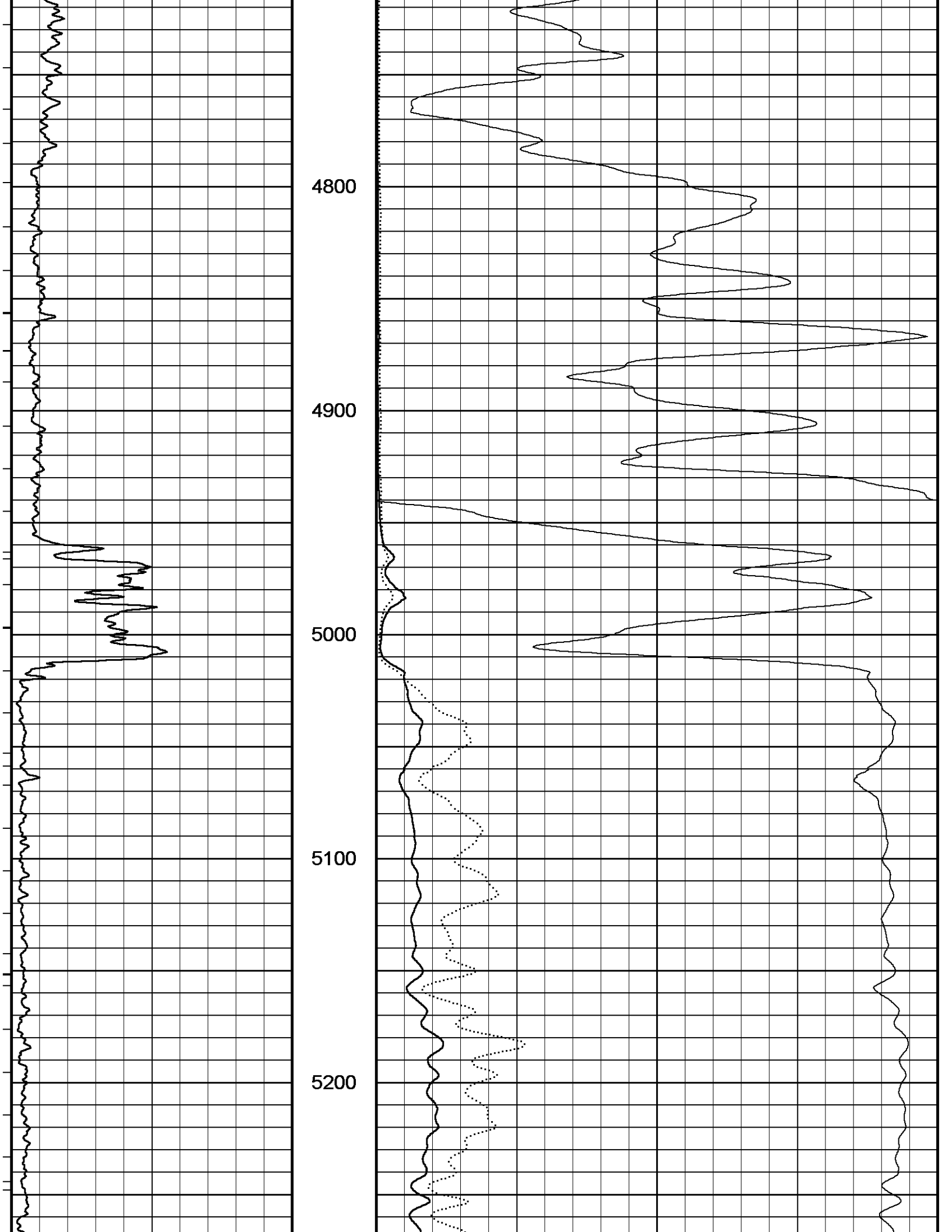
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or

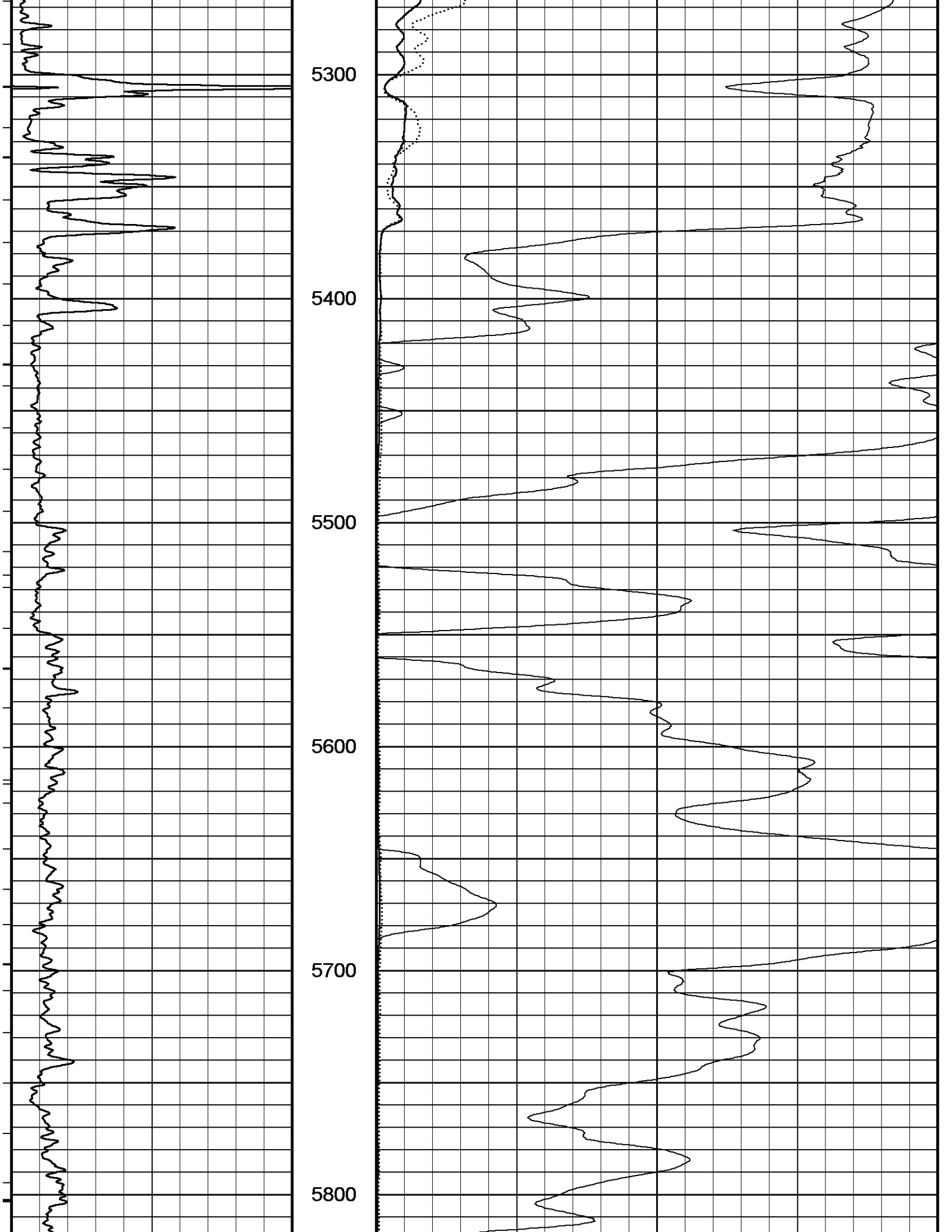
DSC

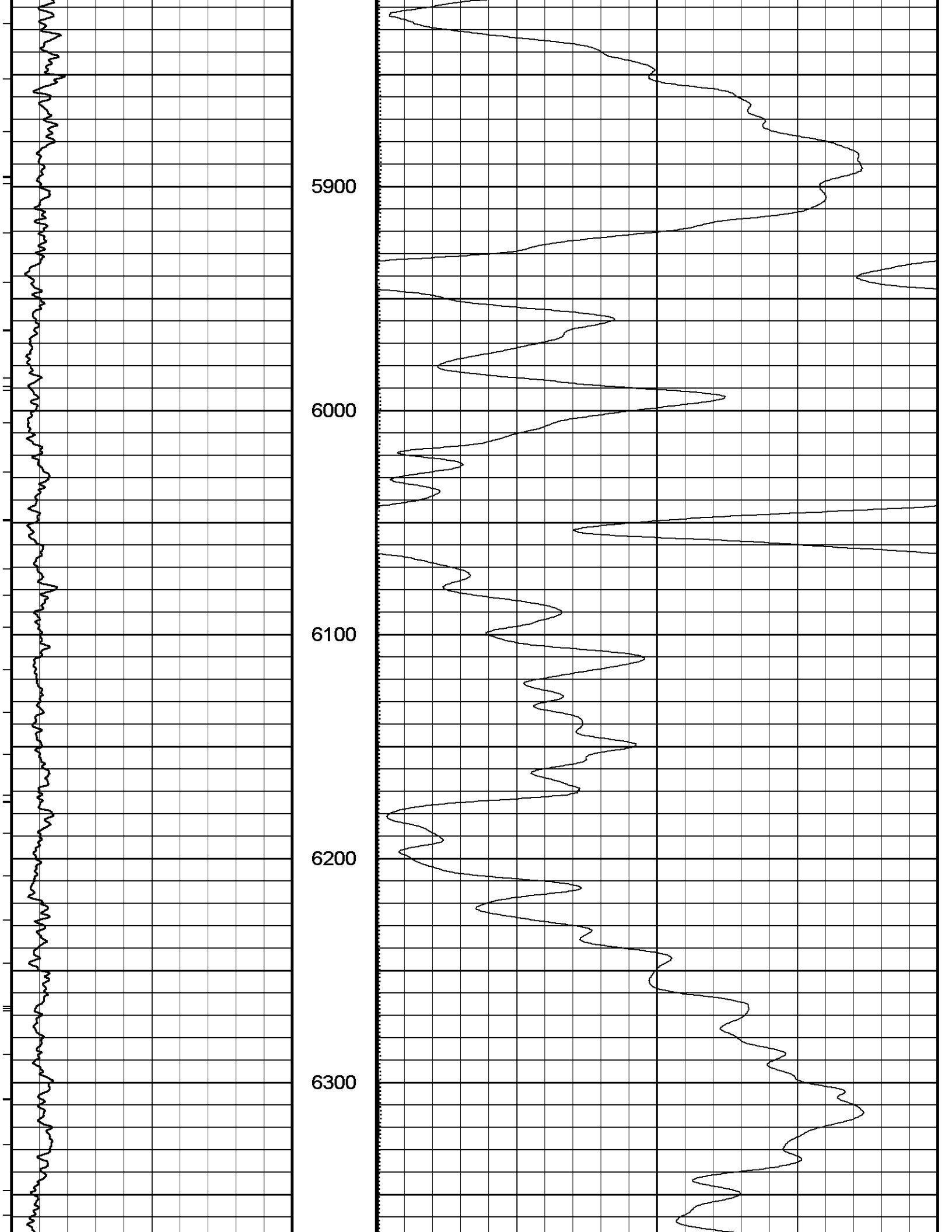
Depth Based Data - Maximum Sampling Increment 10.0cm
 Filename: C:\Data\Dorado E & PMMS158 Depthlog TC-CMI.dta
 System Versions: Processed with 13.02.6600 Plotted with 13.02.6600

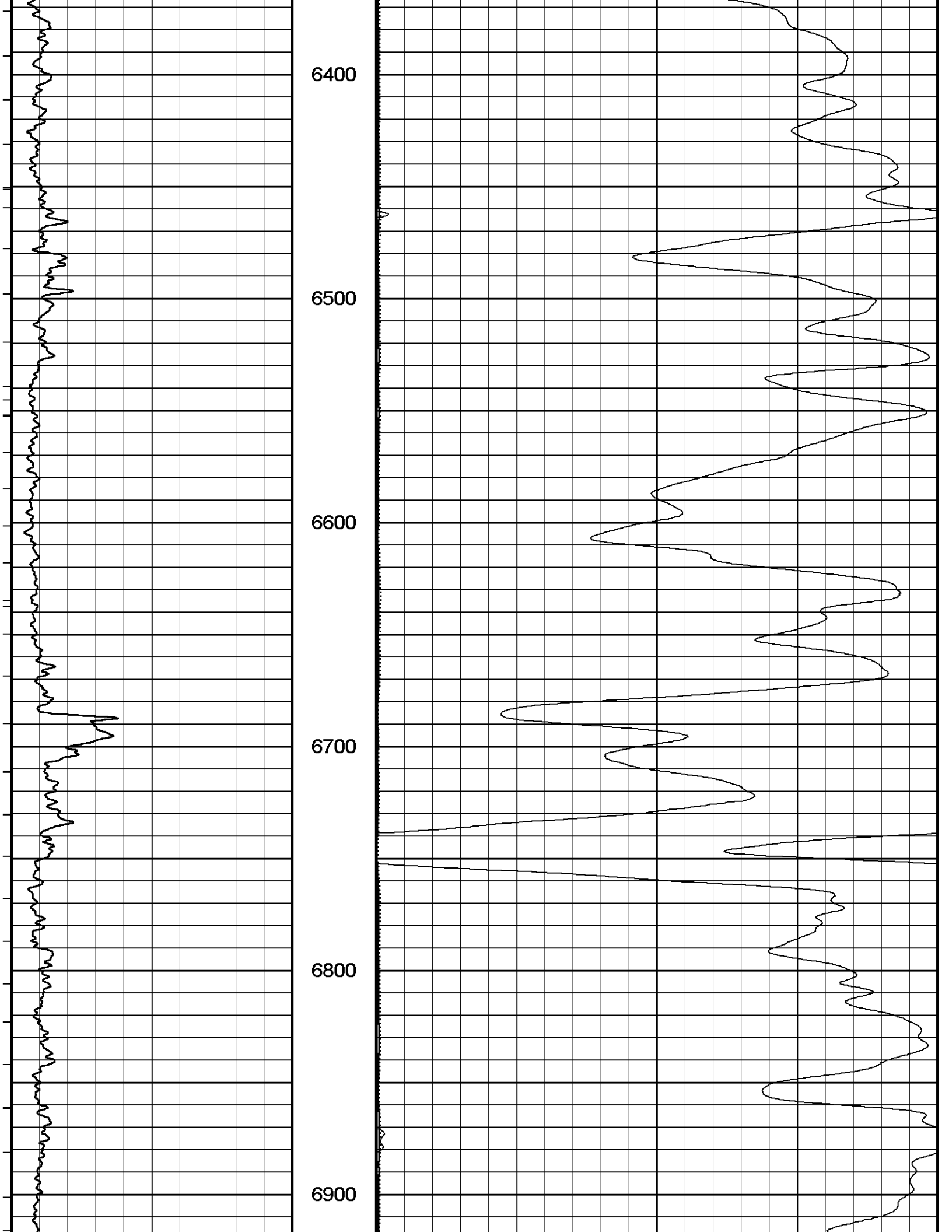
Plotted on 12-SEP-2012 18:30
 Recorded on 12-SEP-2012 17:34

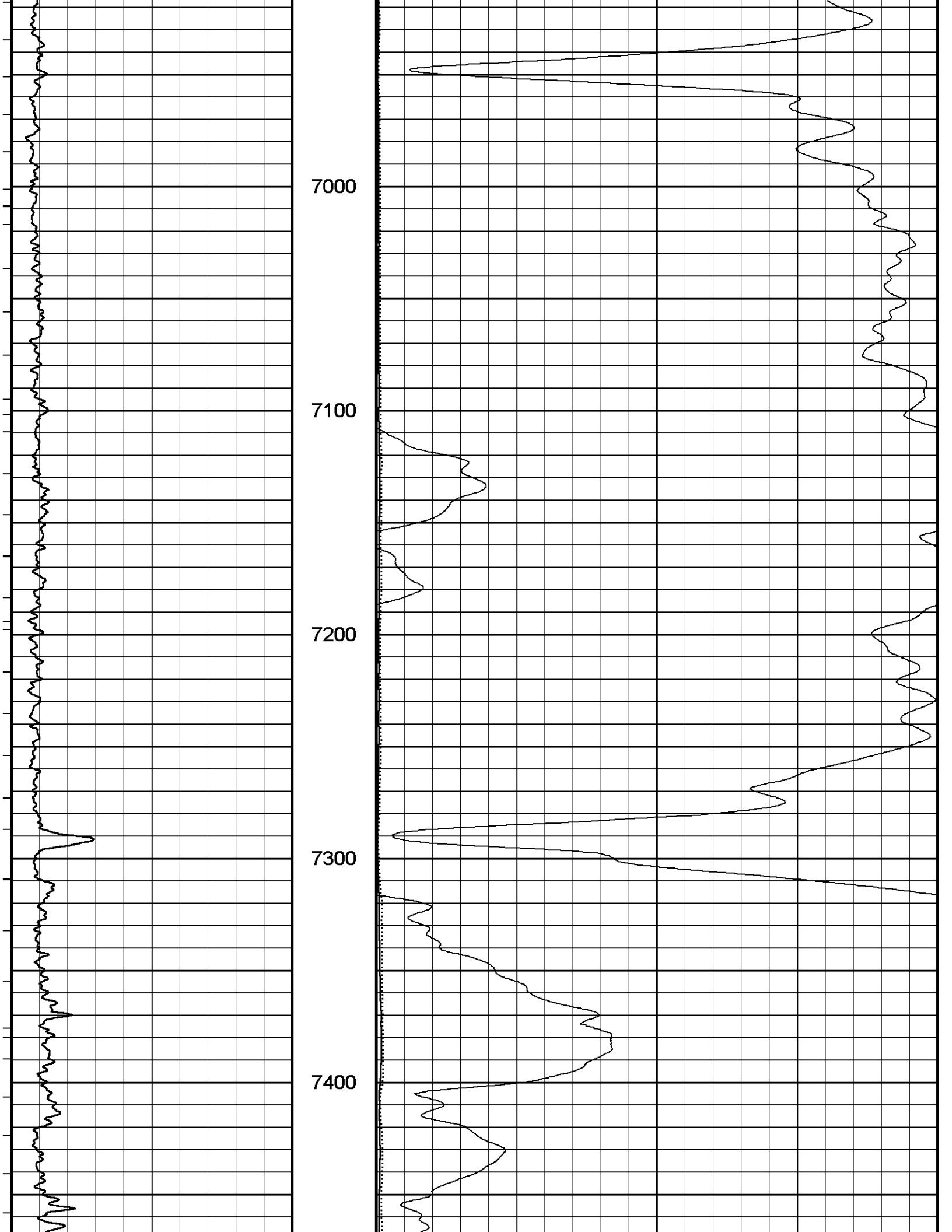


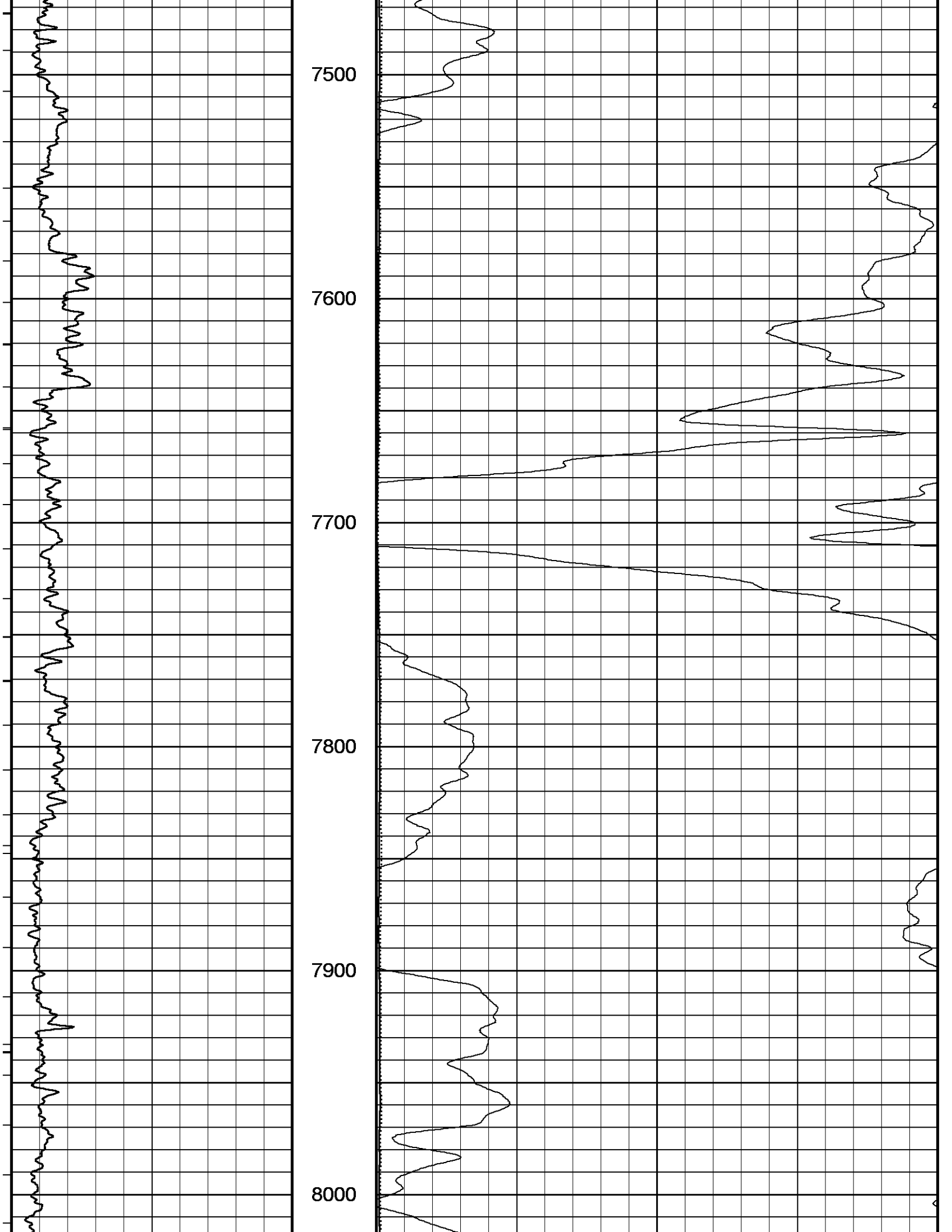


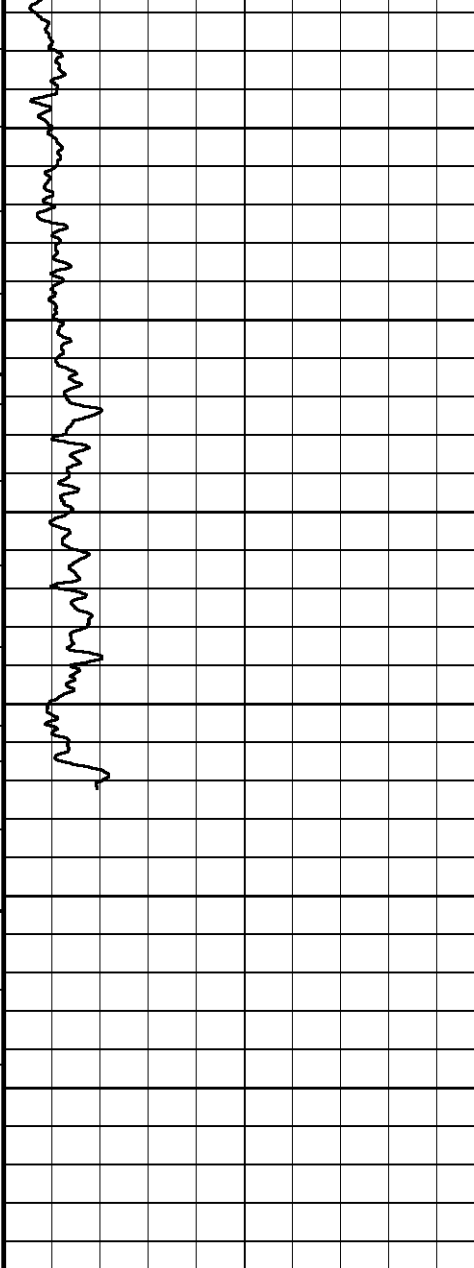












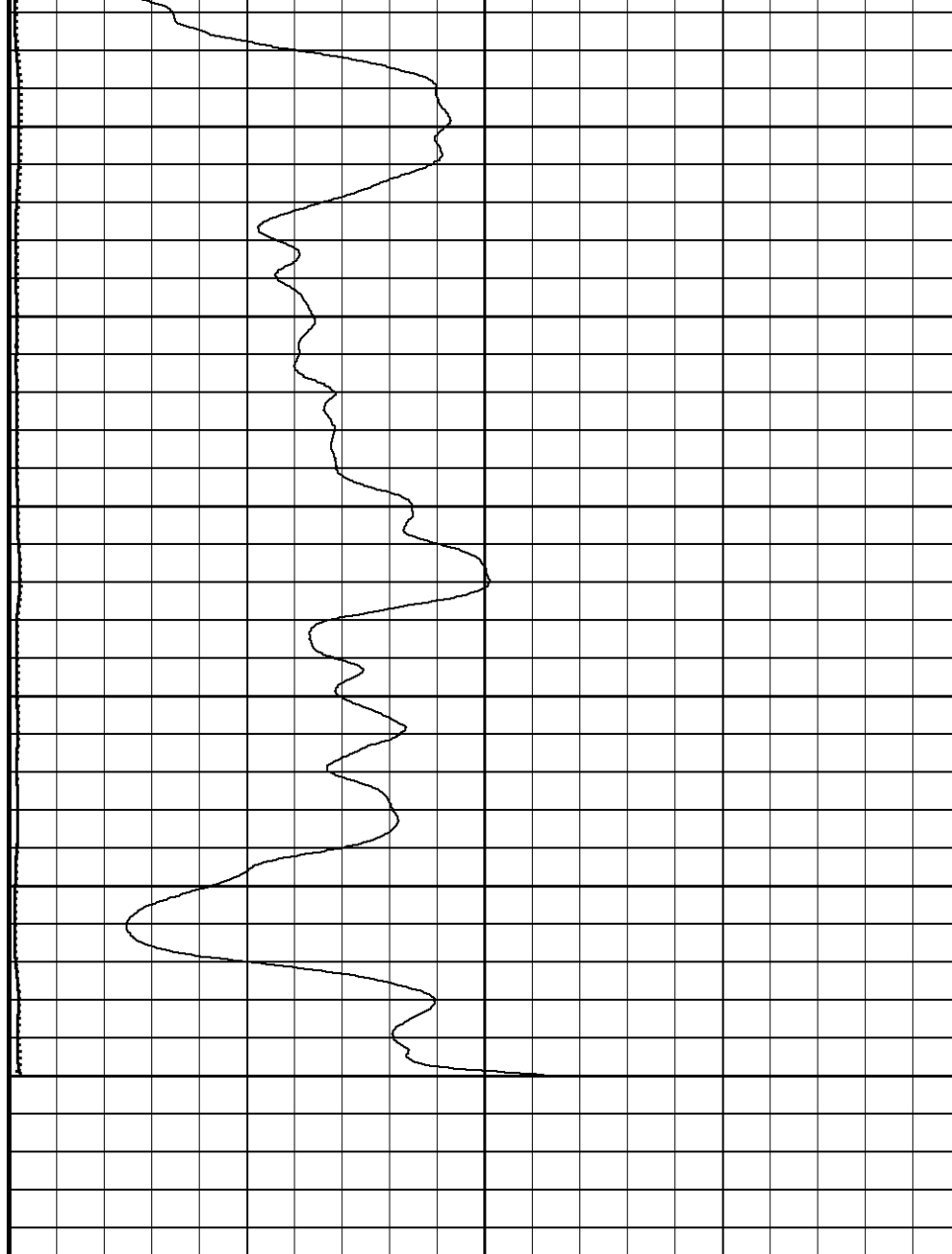
8100

8200

8300

8340

Depth
In
Feet



Timing Marks
every 60.0 sec

MGS Gamma Ray

0	API	150
	75	
150	225	300

Replay
Scale
1:600

Array Ind. Six Cond Ct
mmhos

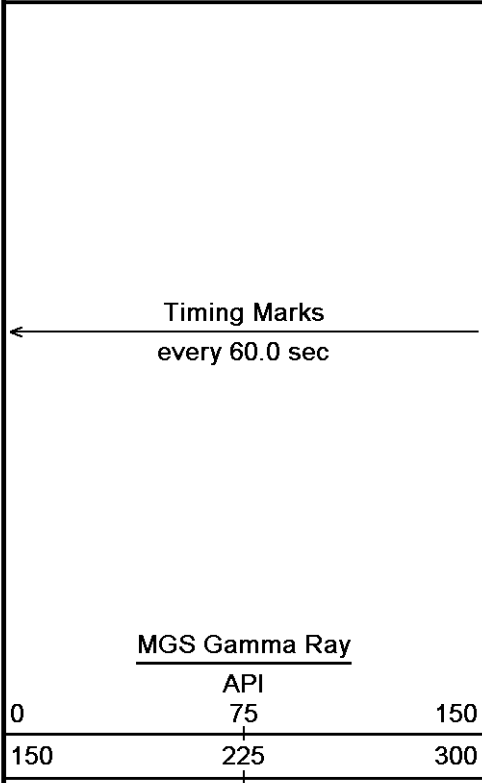
400	300	200	100	0
800	700	600	500	400

Array Ind. Six Res 20
ohm metres

0	100	200
0	1000	2000

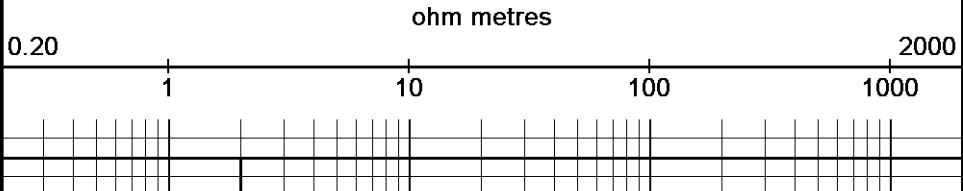
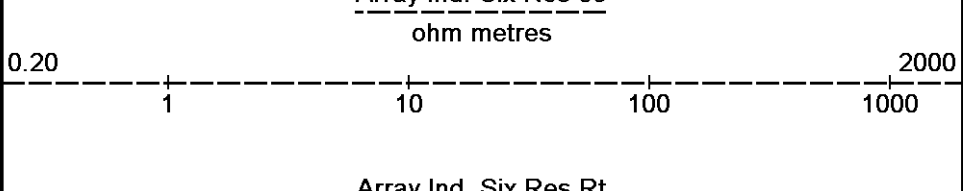
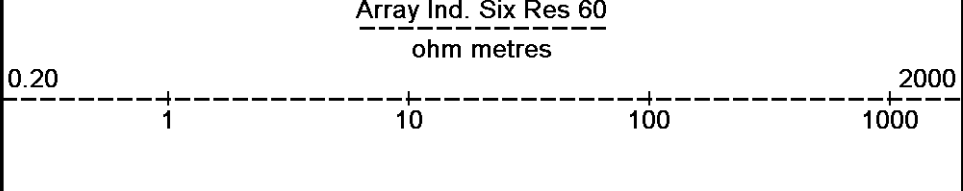
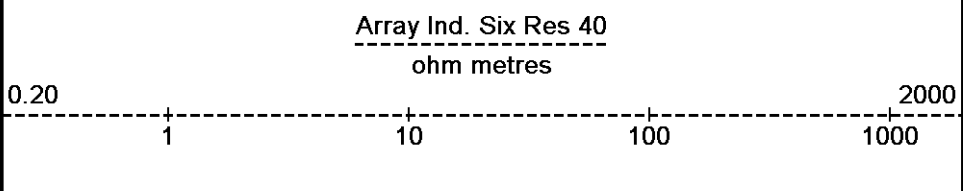
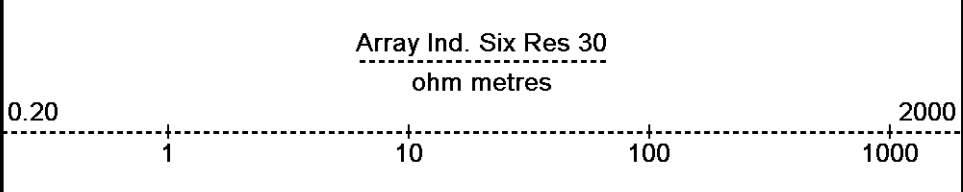
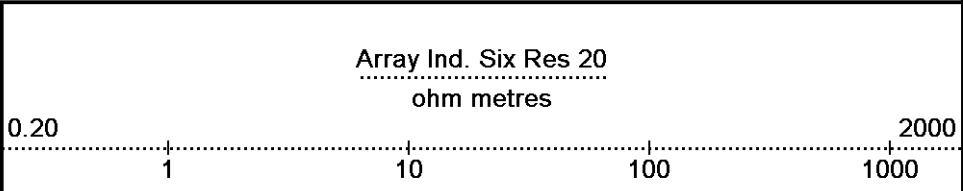
Array Ind. Six Res Rt
ohm metres

0	100	200
0	1000	2000

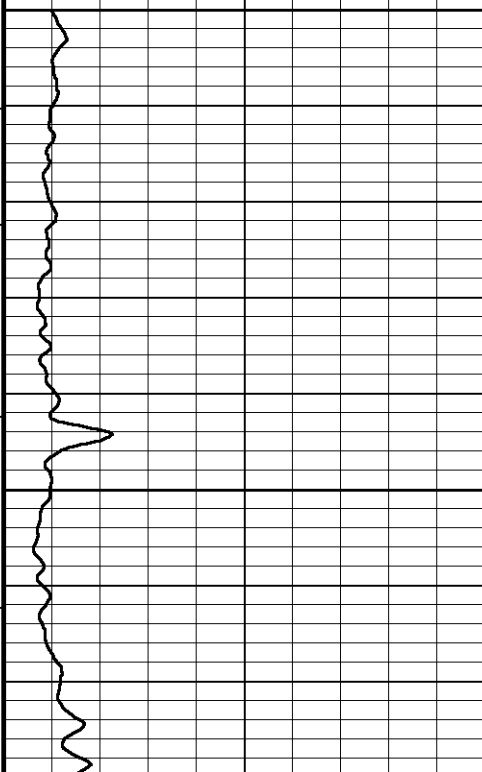


Depth
In
Feet

Borehole
Temp in
deg F



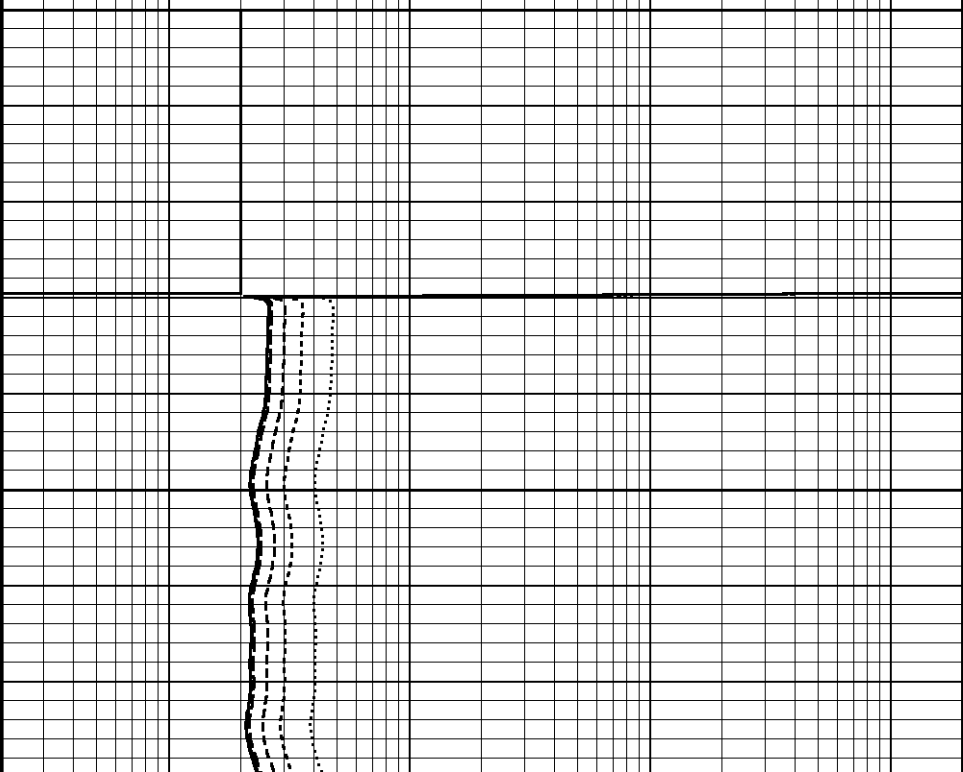
Replay
Scale
1:240

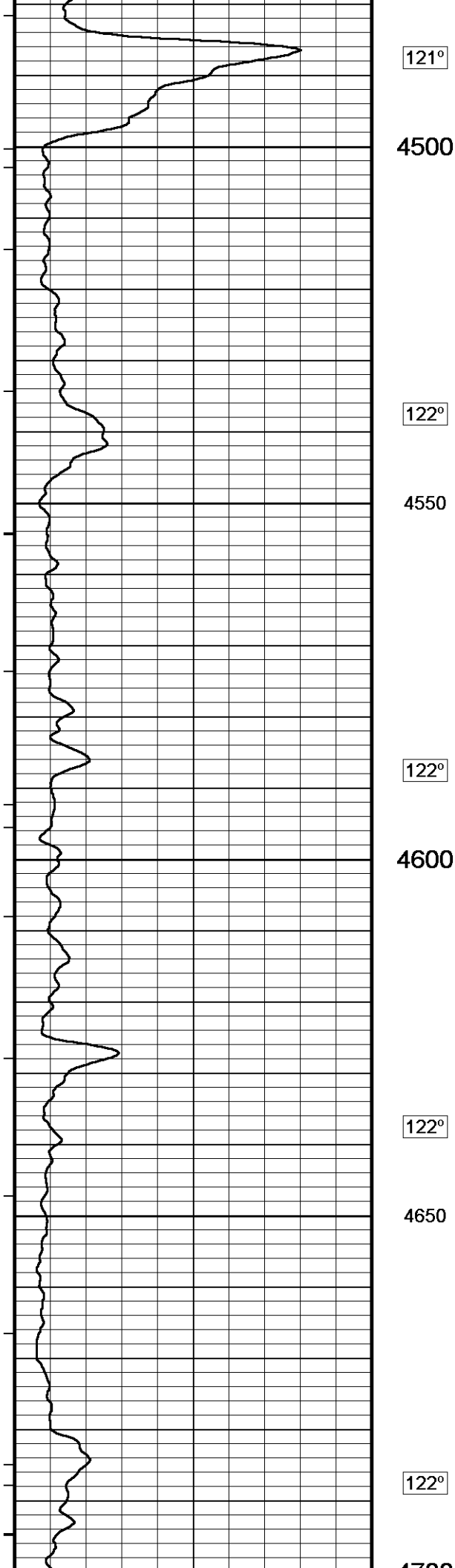


4400

122°

4450





121°

4500

122°

4550

122°

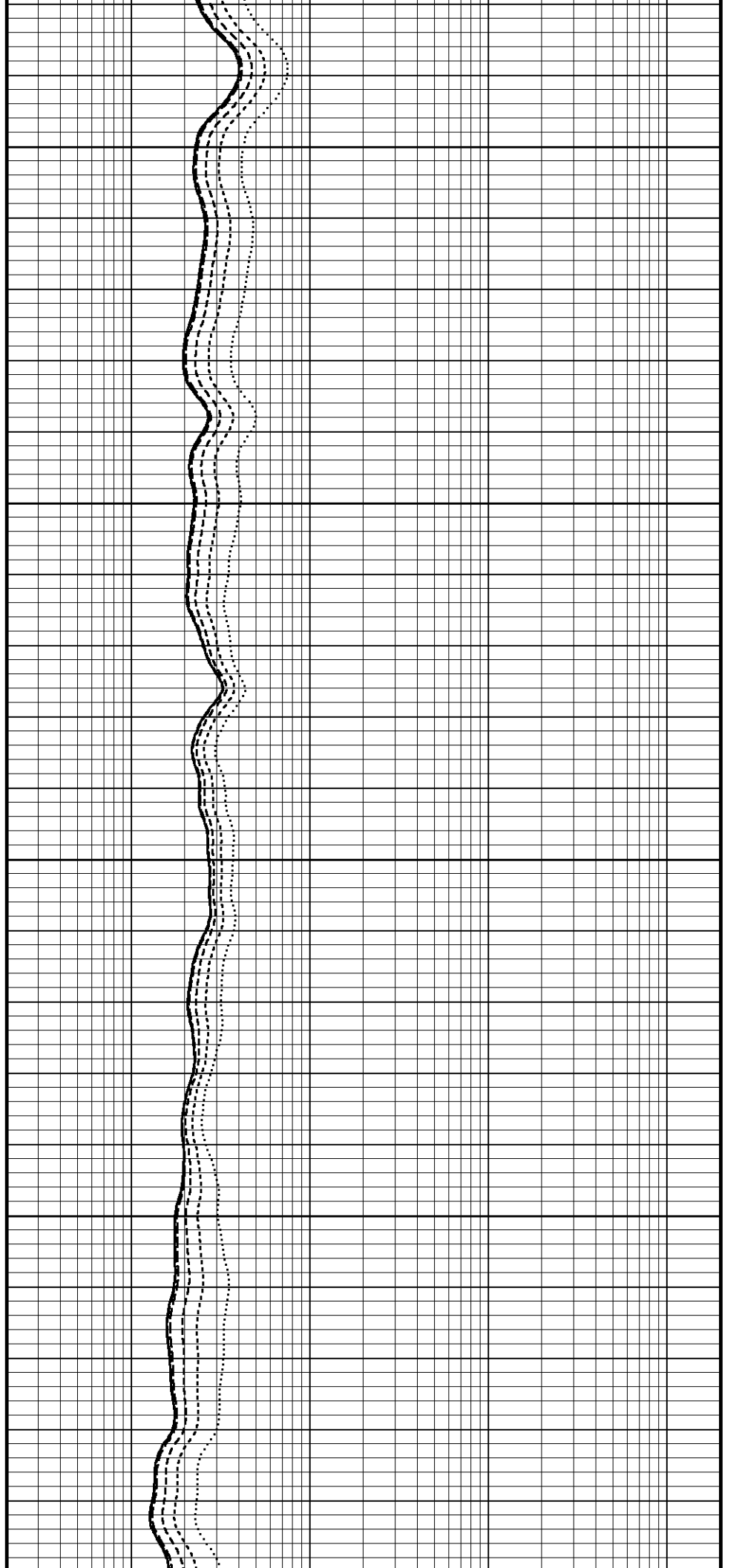
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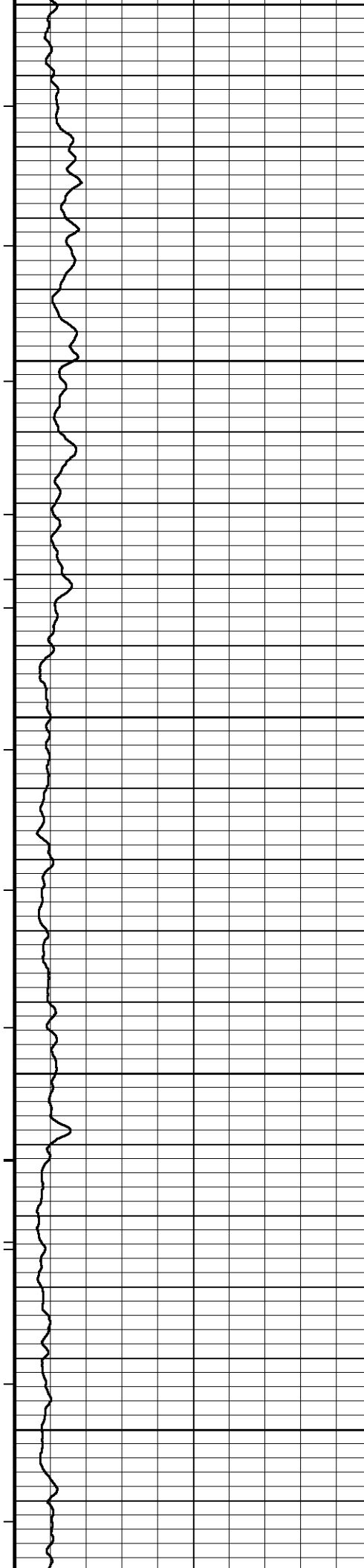
122°

4650

122°

1700





4700

122°

4750

122°

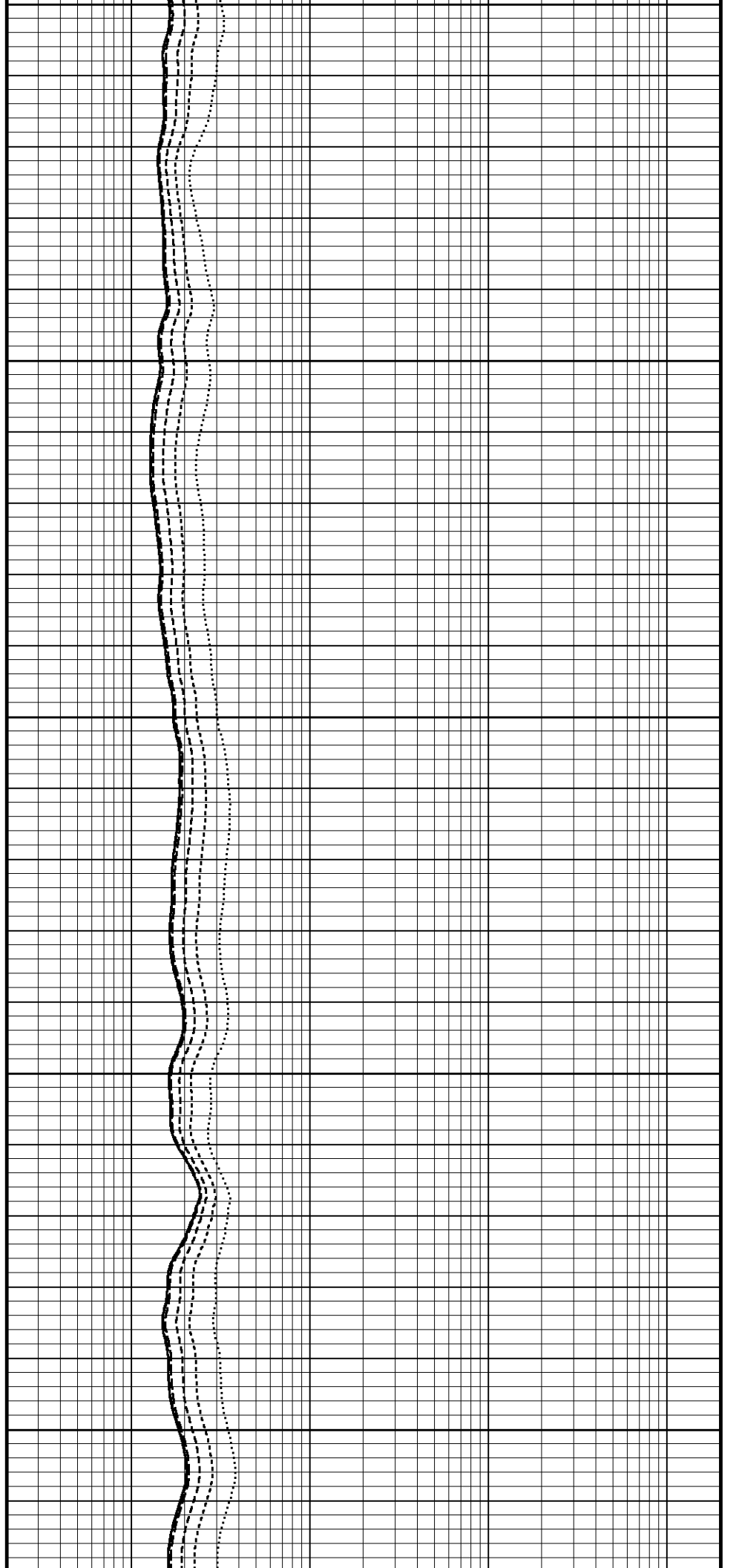
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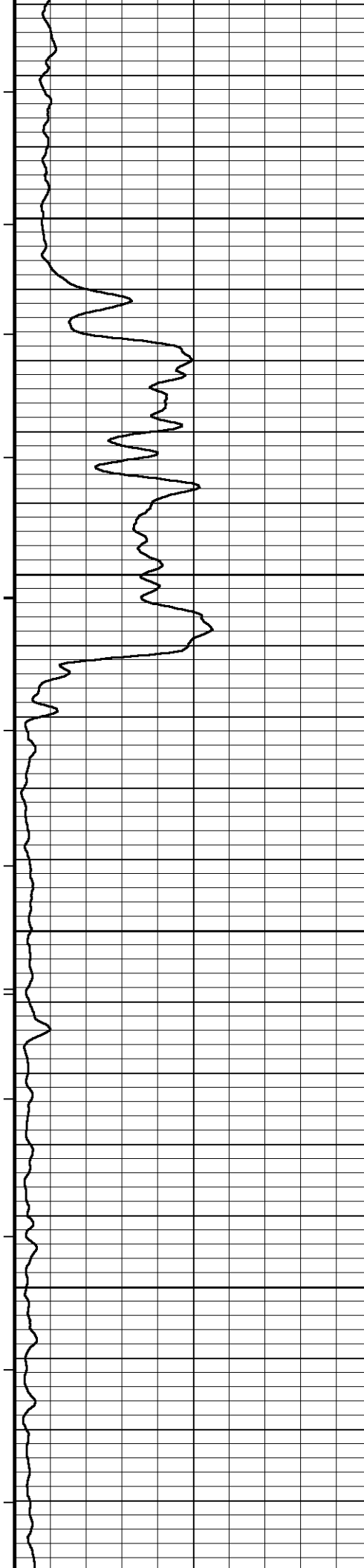
122°

4850

122°

4900





122°

4950

122°

5000

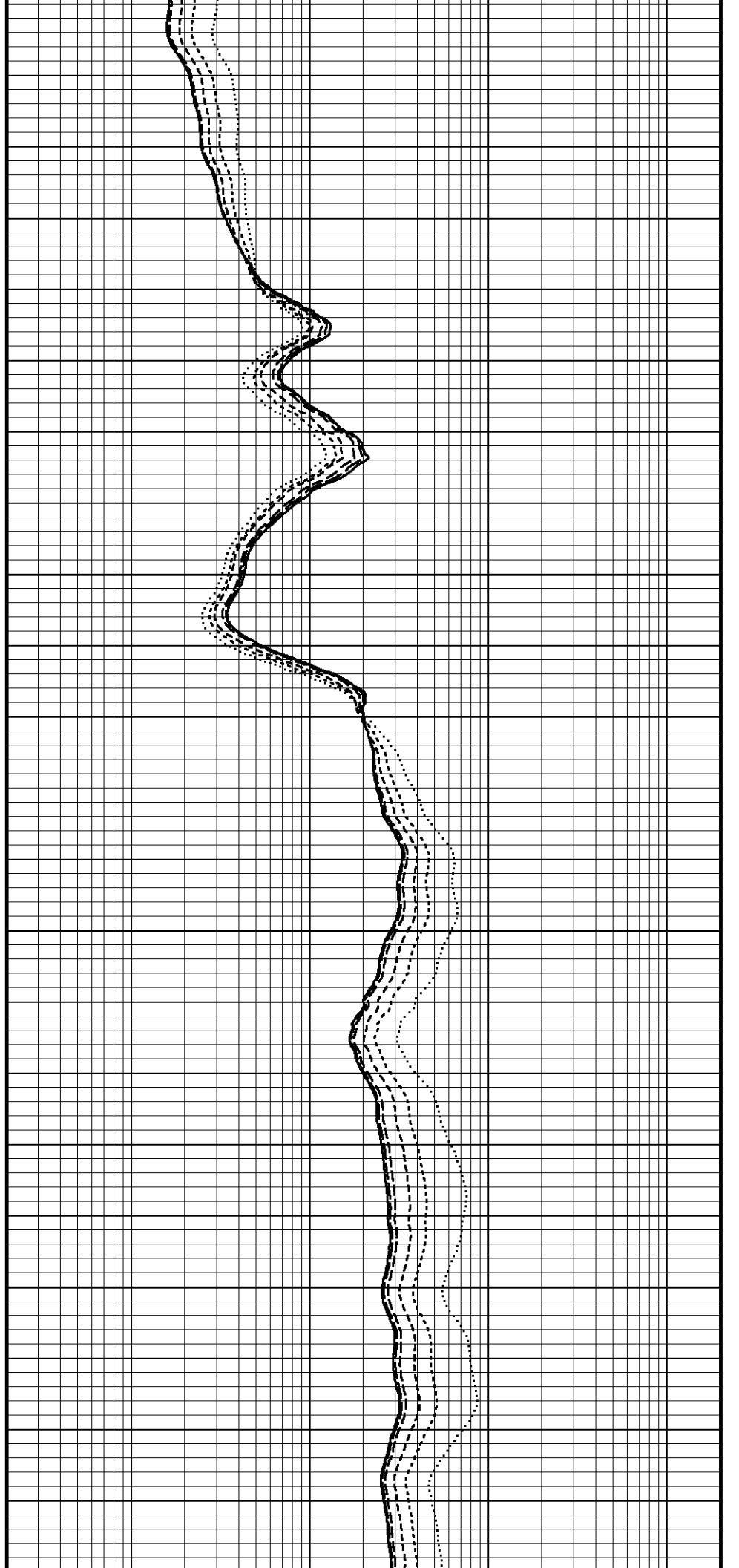
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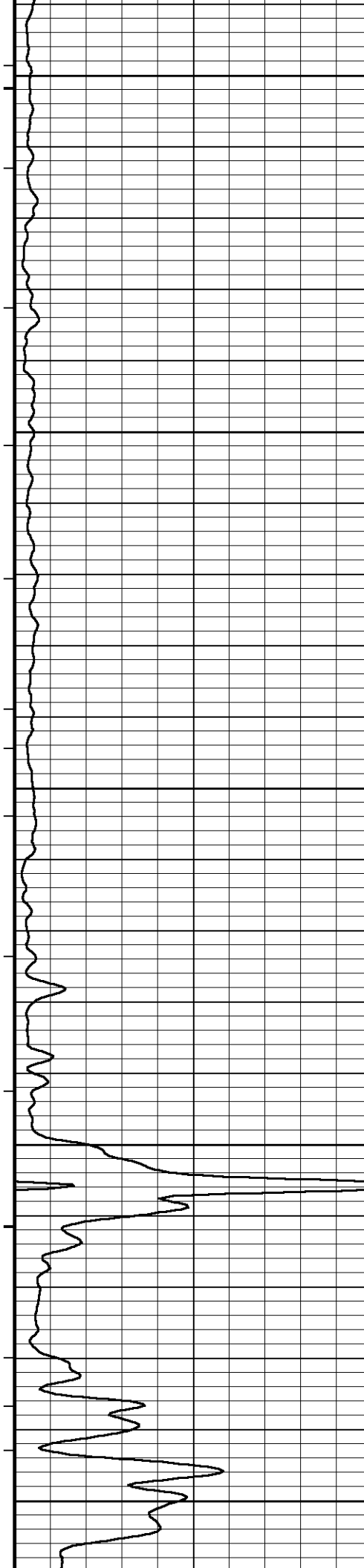
5050

122°

5100

122°





5150

122°

5200

122°

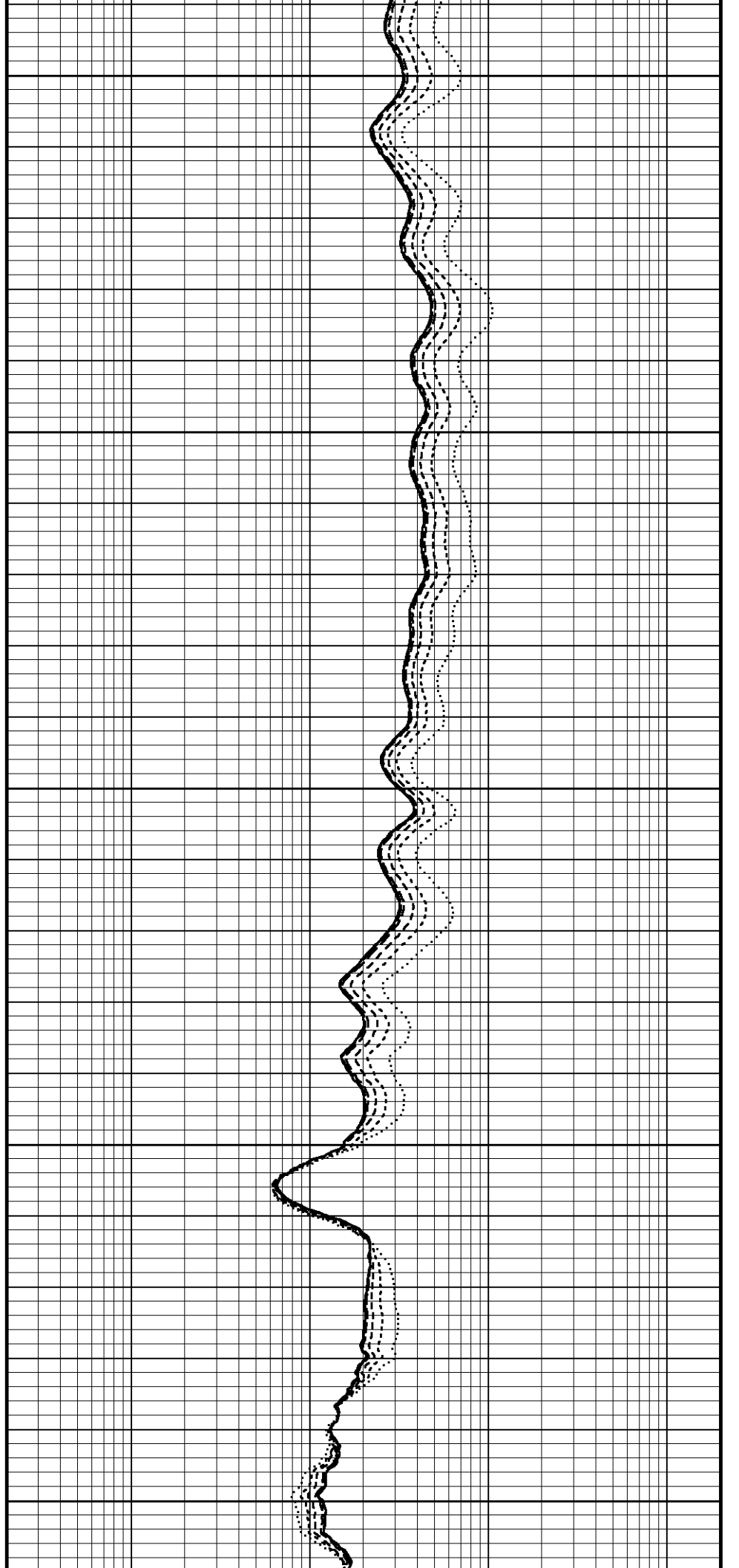
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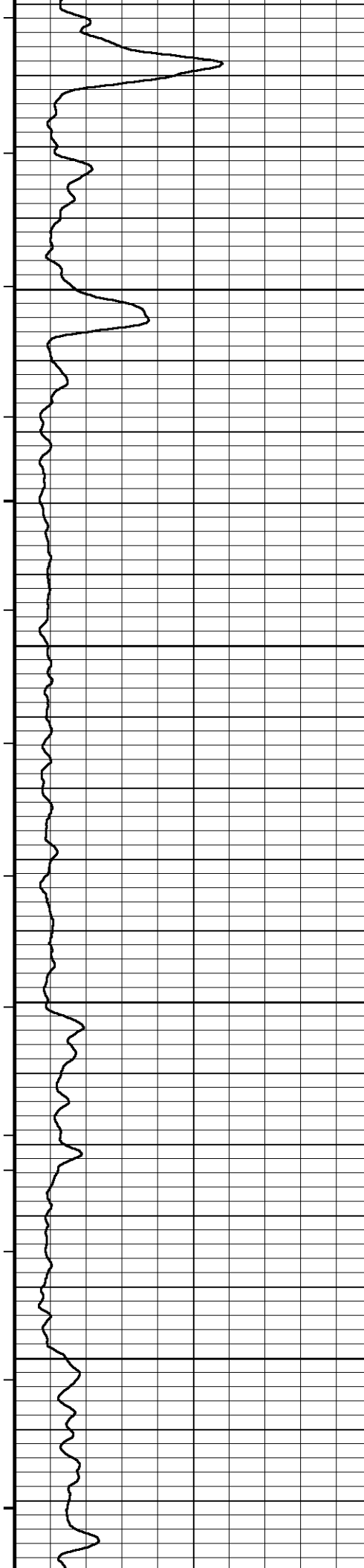
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5300

122°

5350





122°

5400

122°

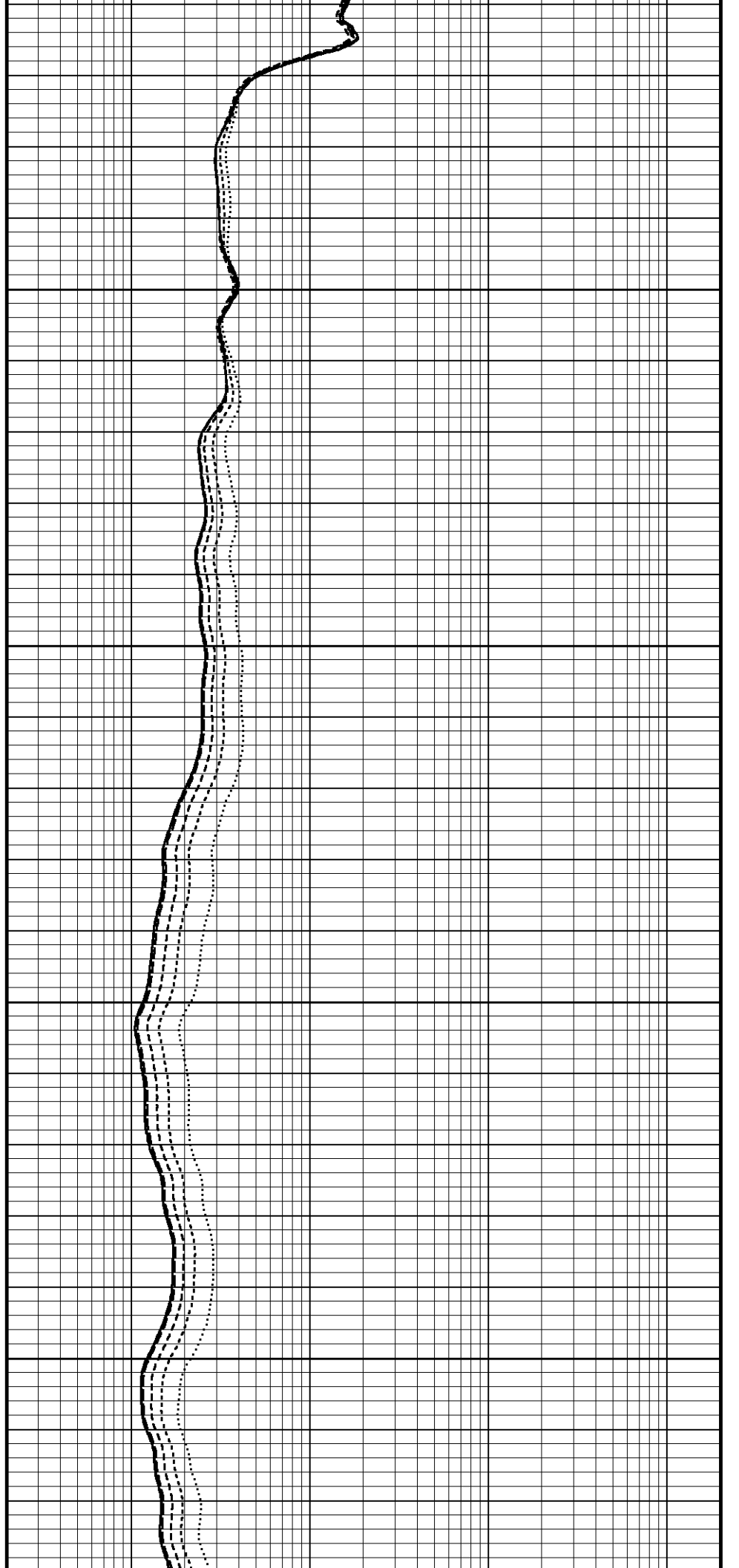
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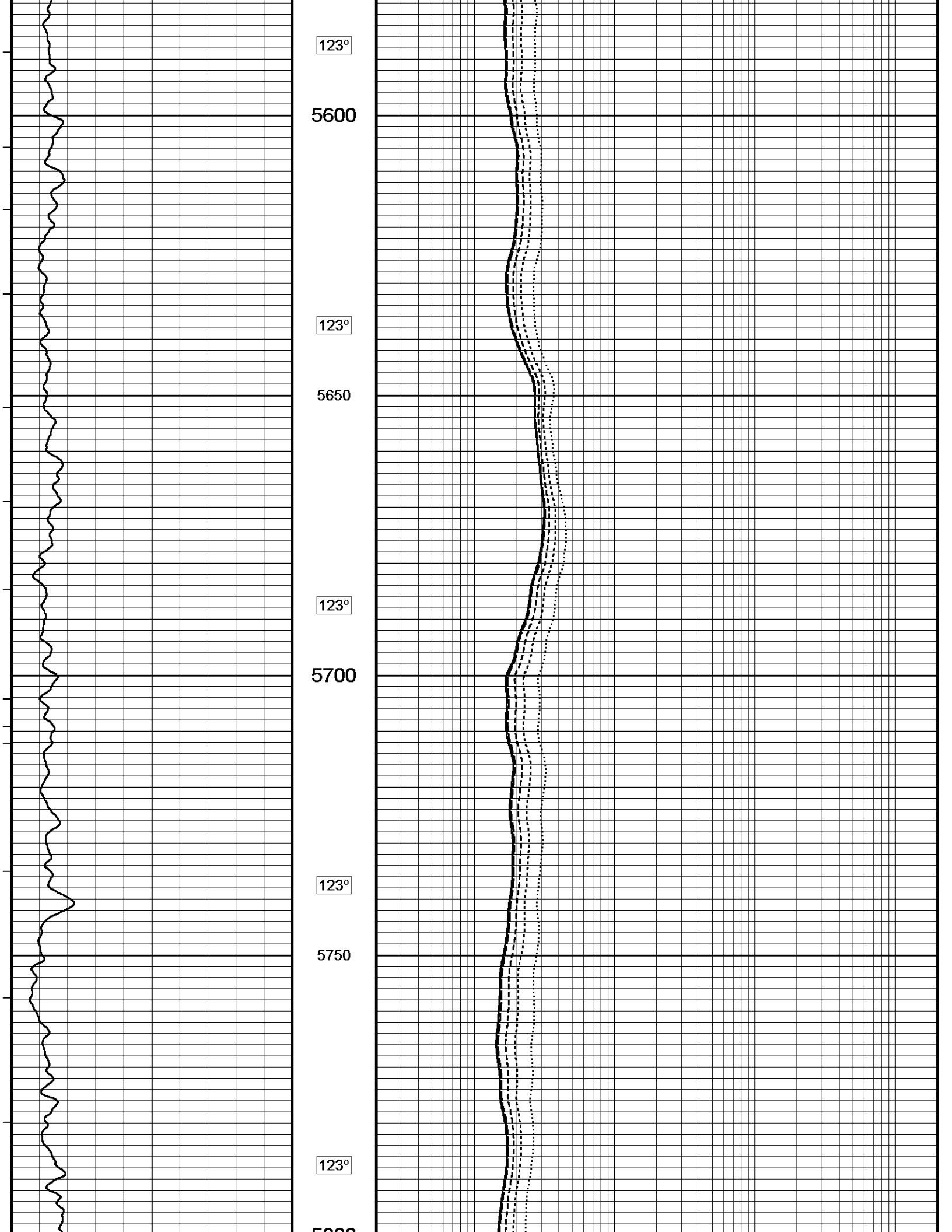
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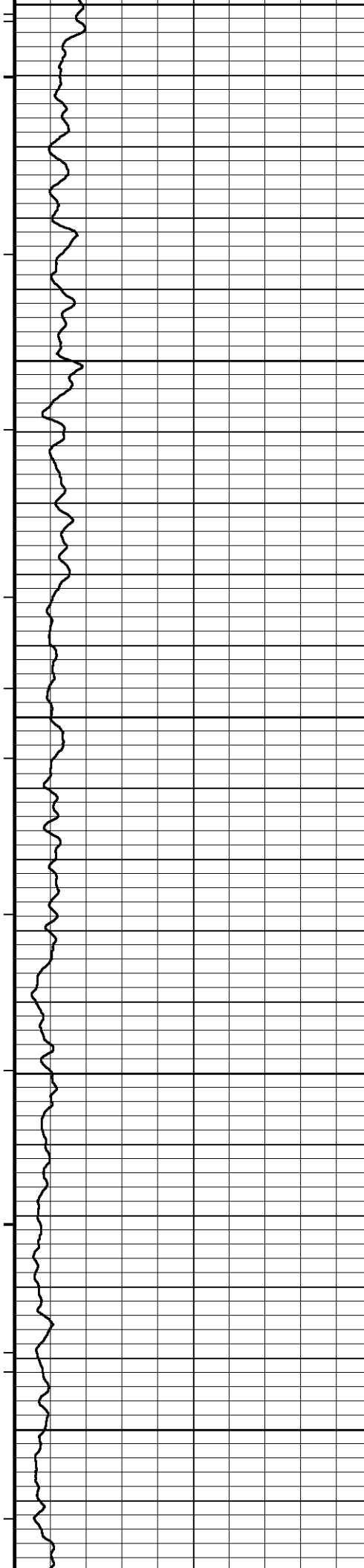
5500

123°

5550







5800

123°

5850

123°

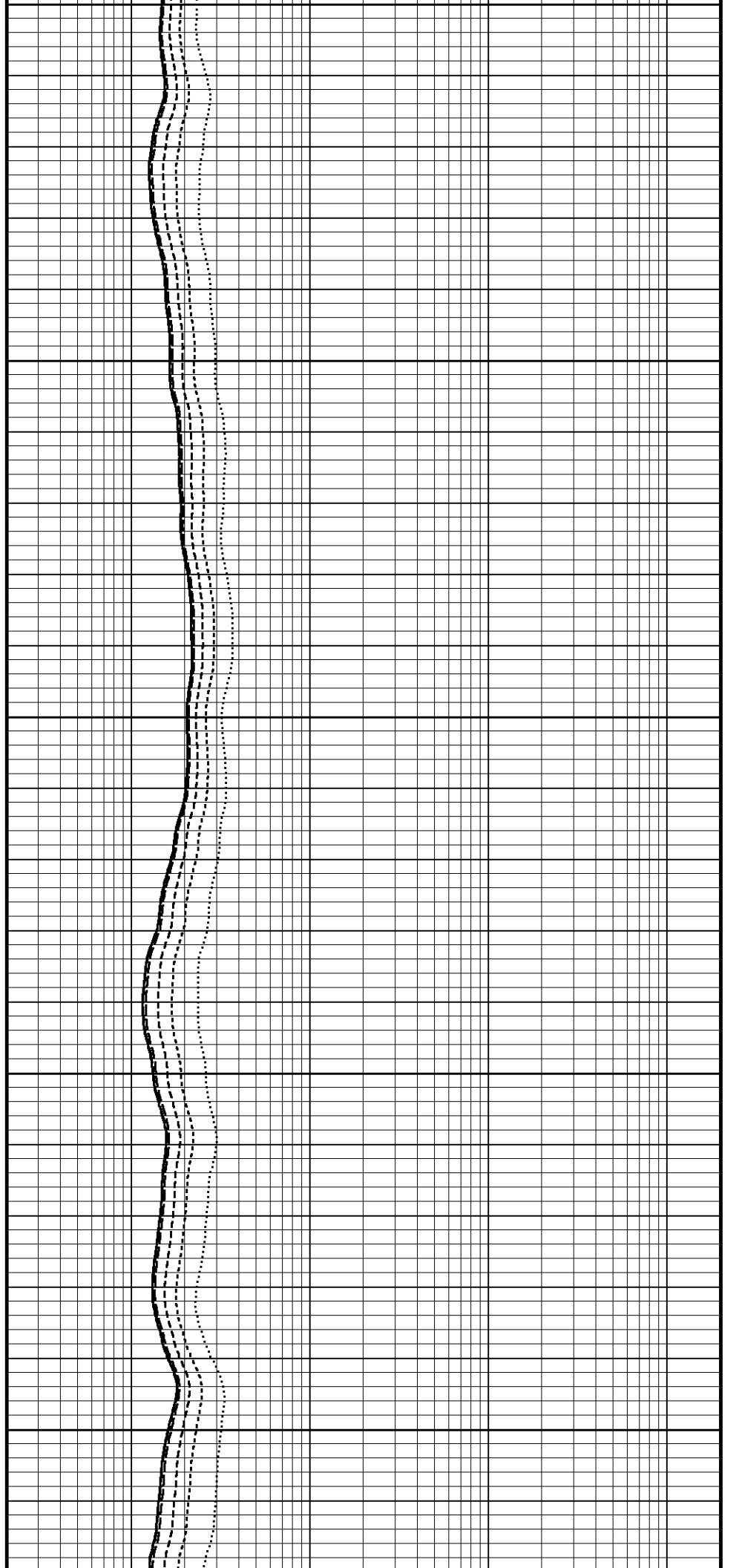
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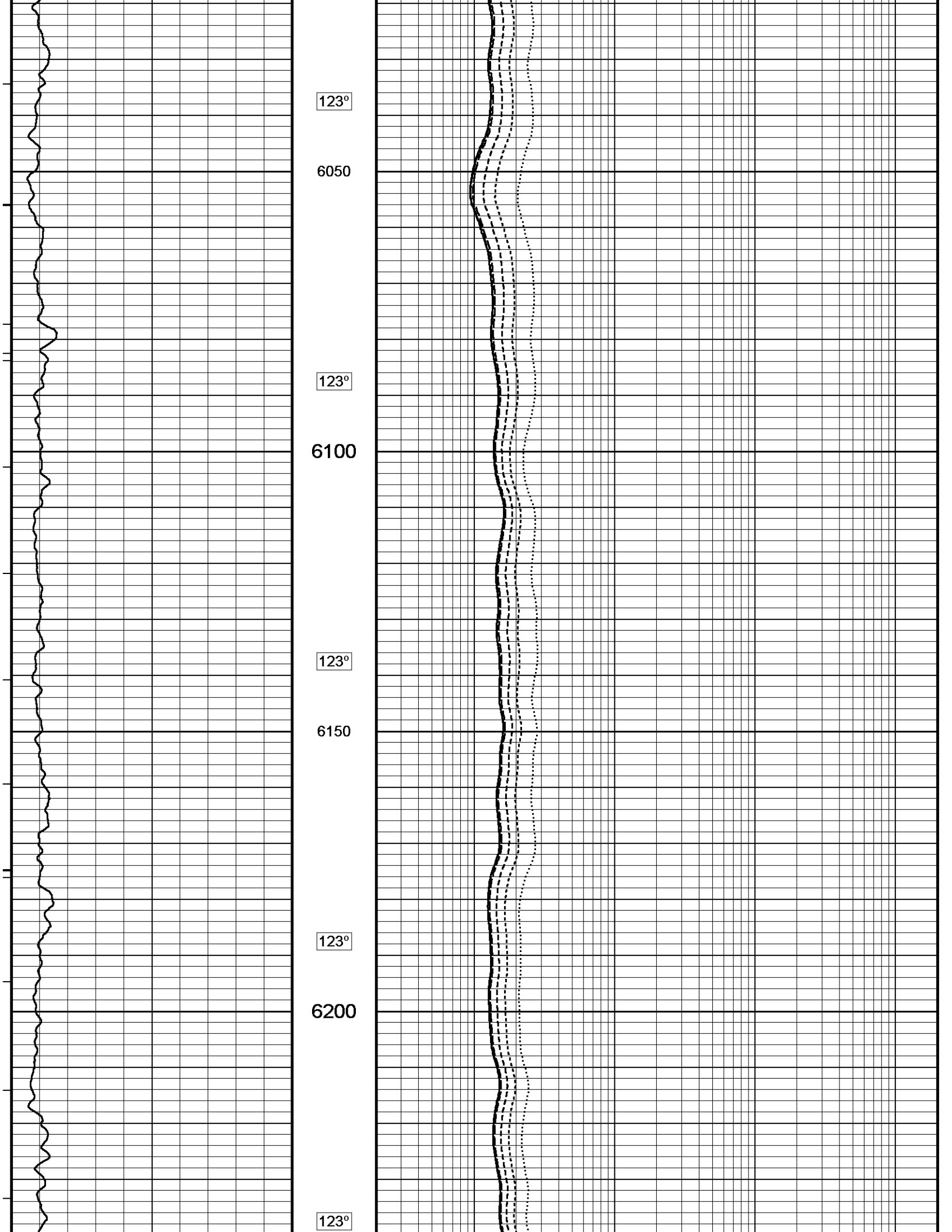
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5950

123°

6000





123°

6050

123°

6100

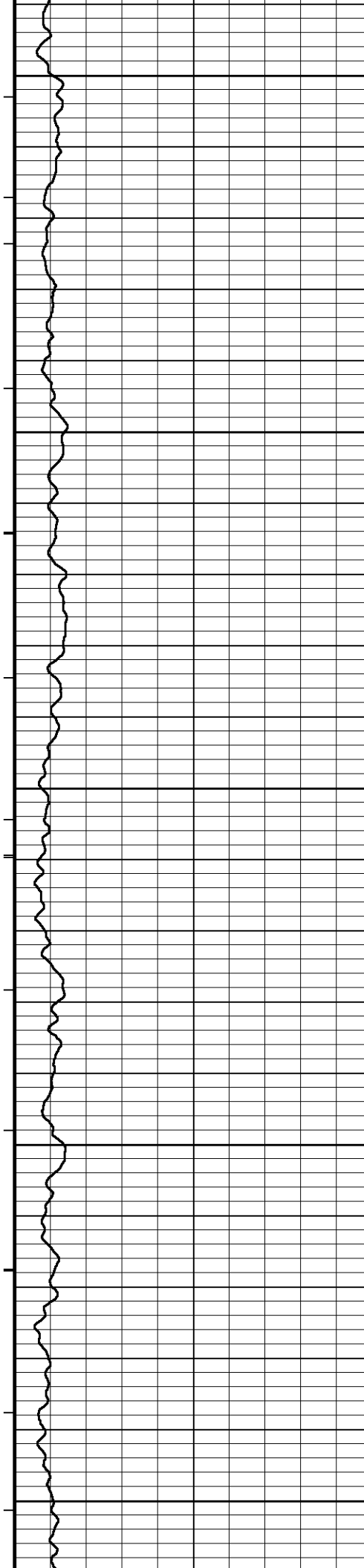
123°

6150

123°

6200

123°



6250

123°

6300

123°

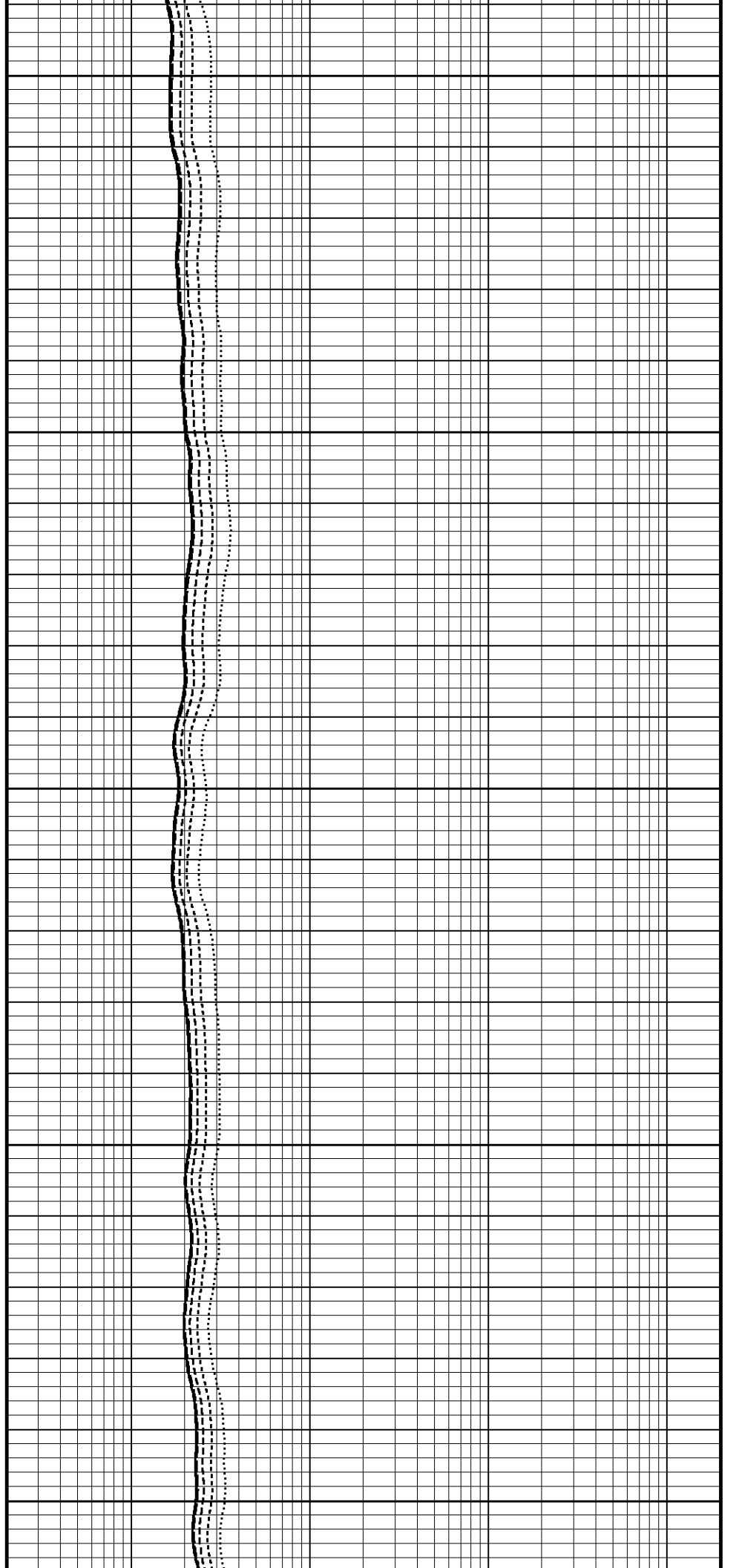
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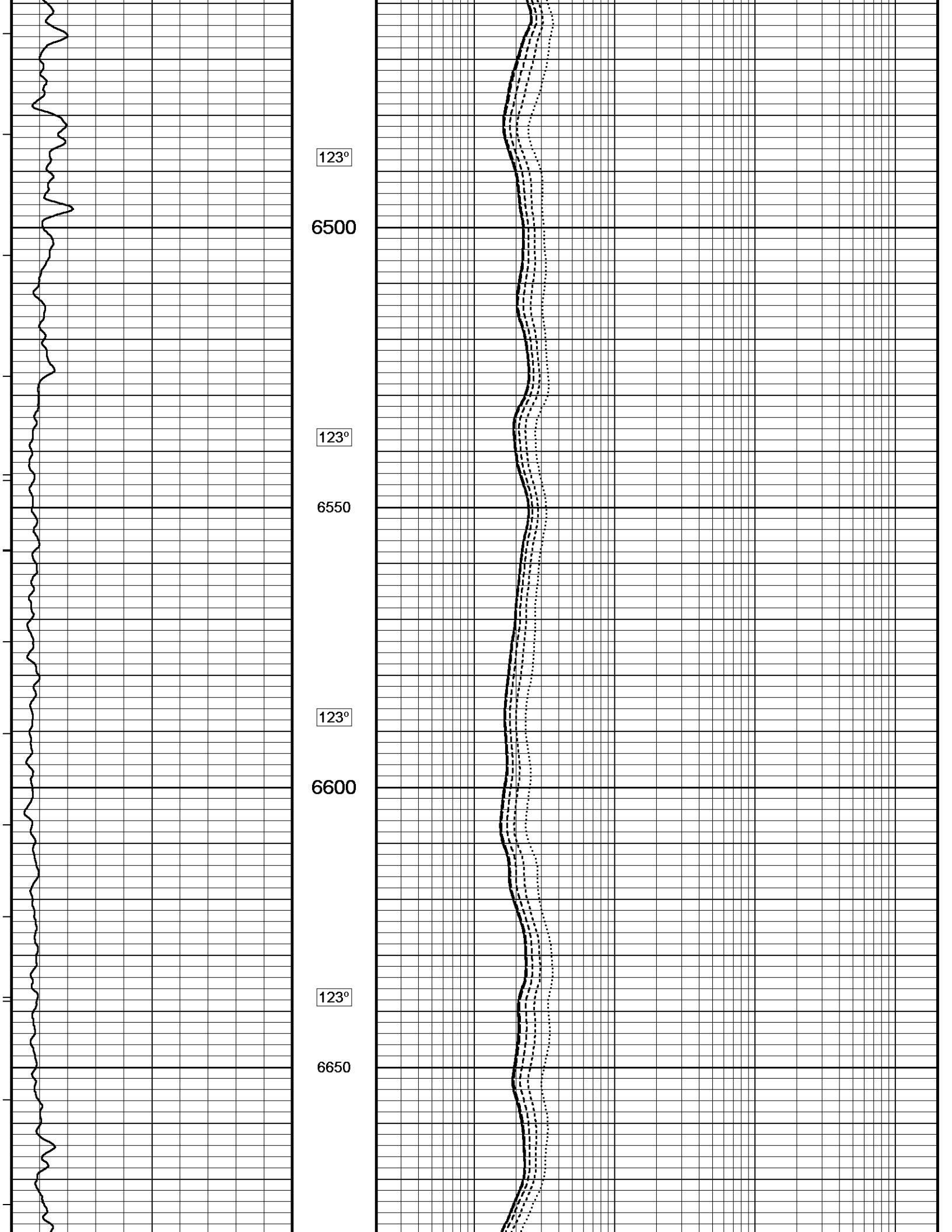
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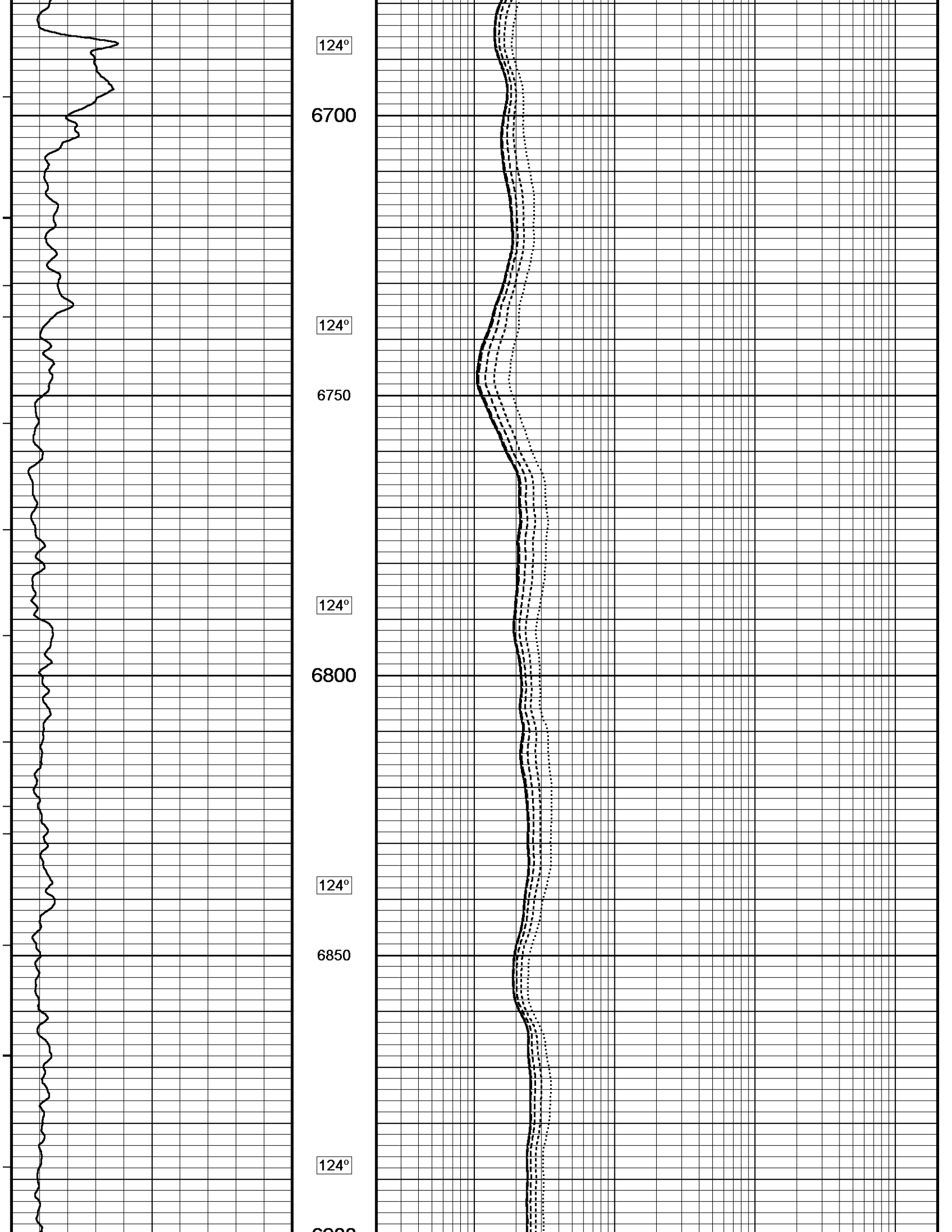
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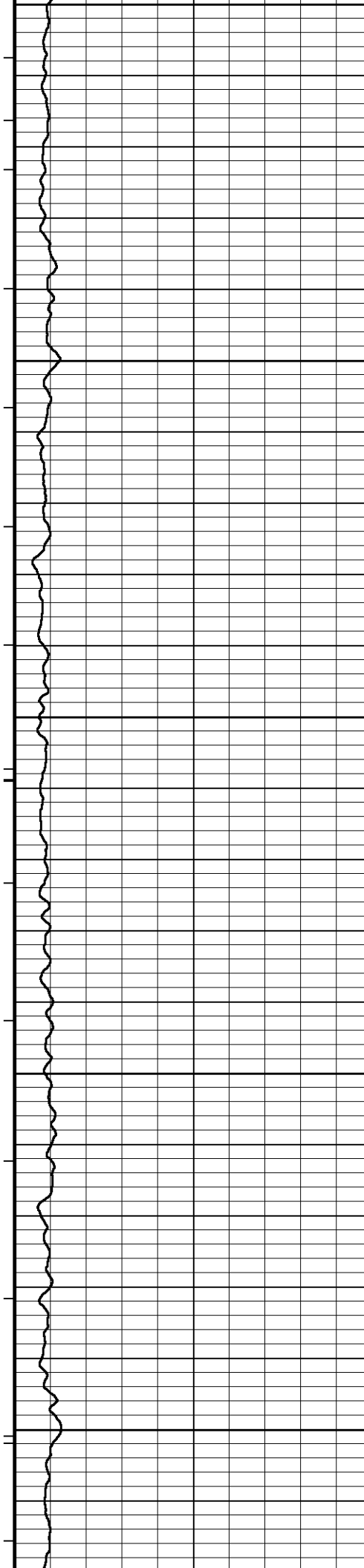
123°

6450









6900

124°

6950

124°

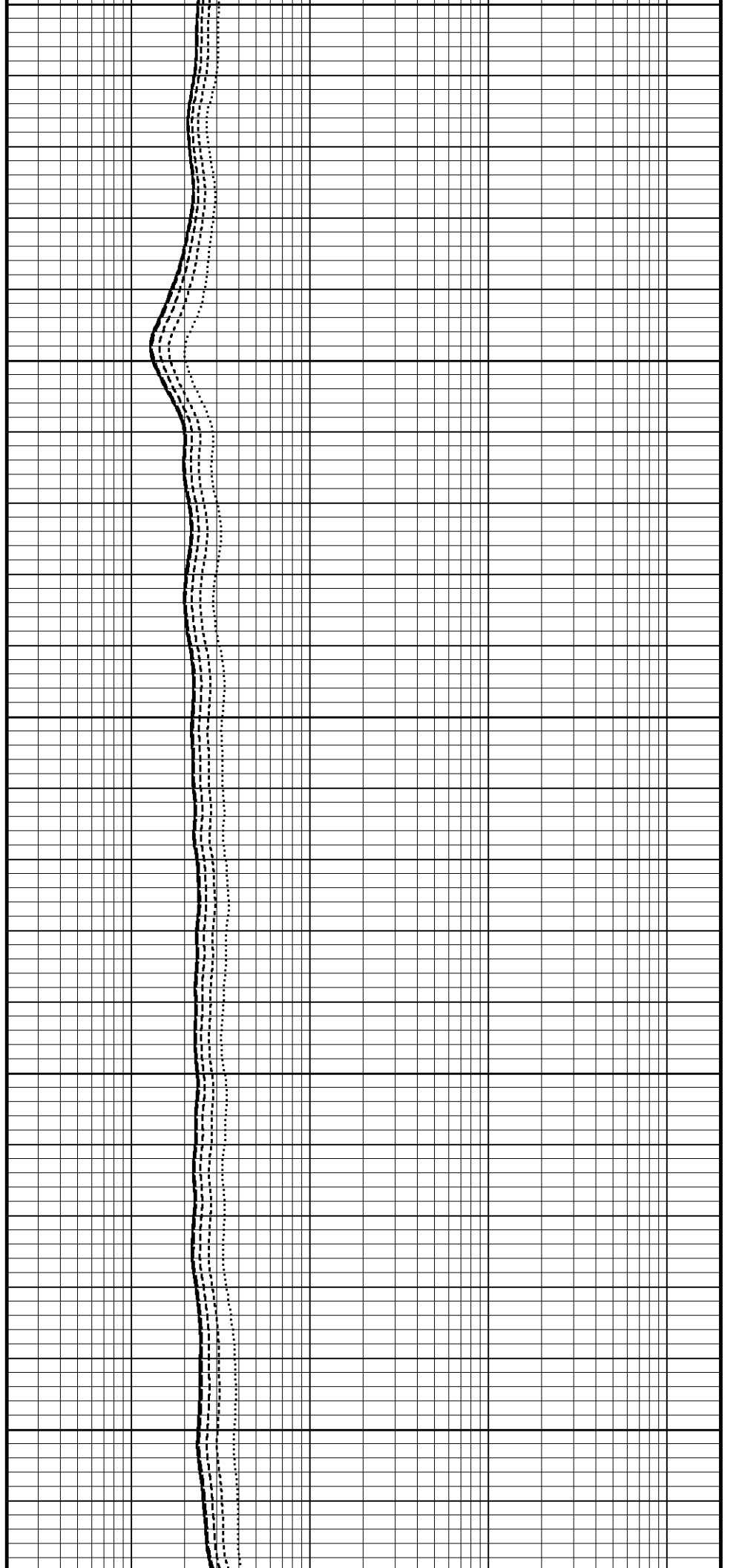
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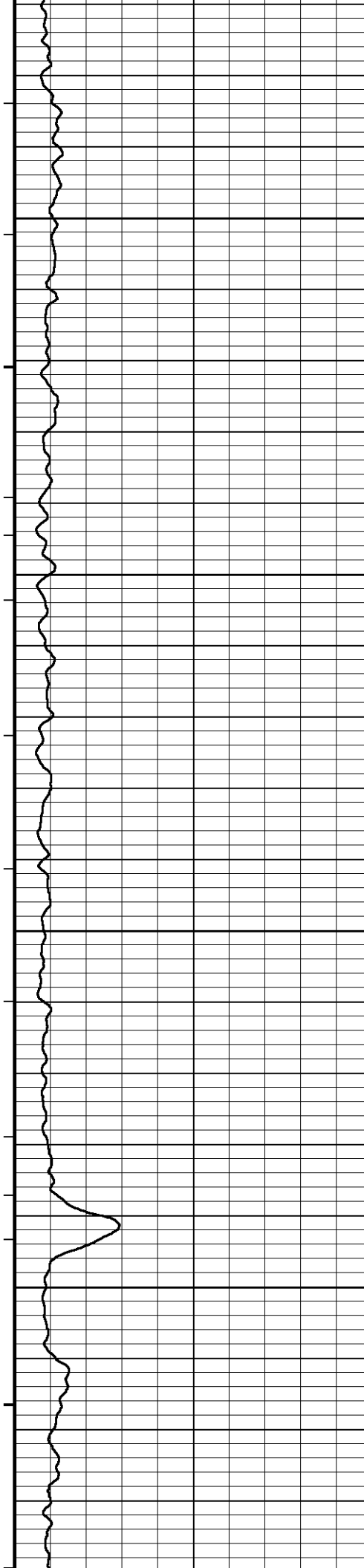
124°

7050

124°

7100





124°

7150

124°

7200

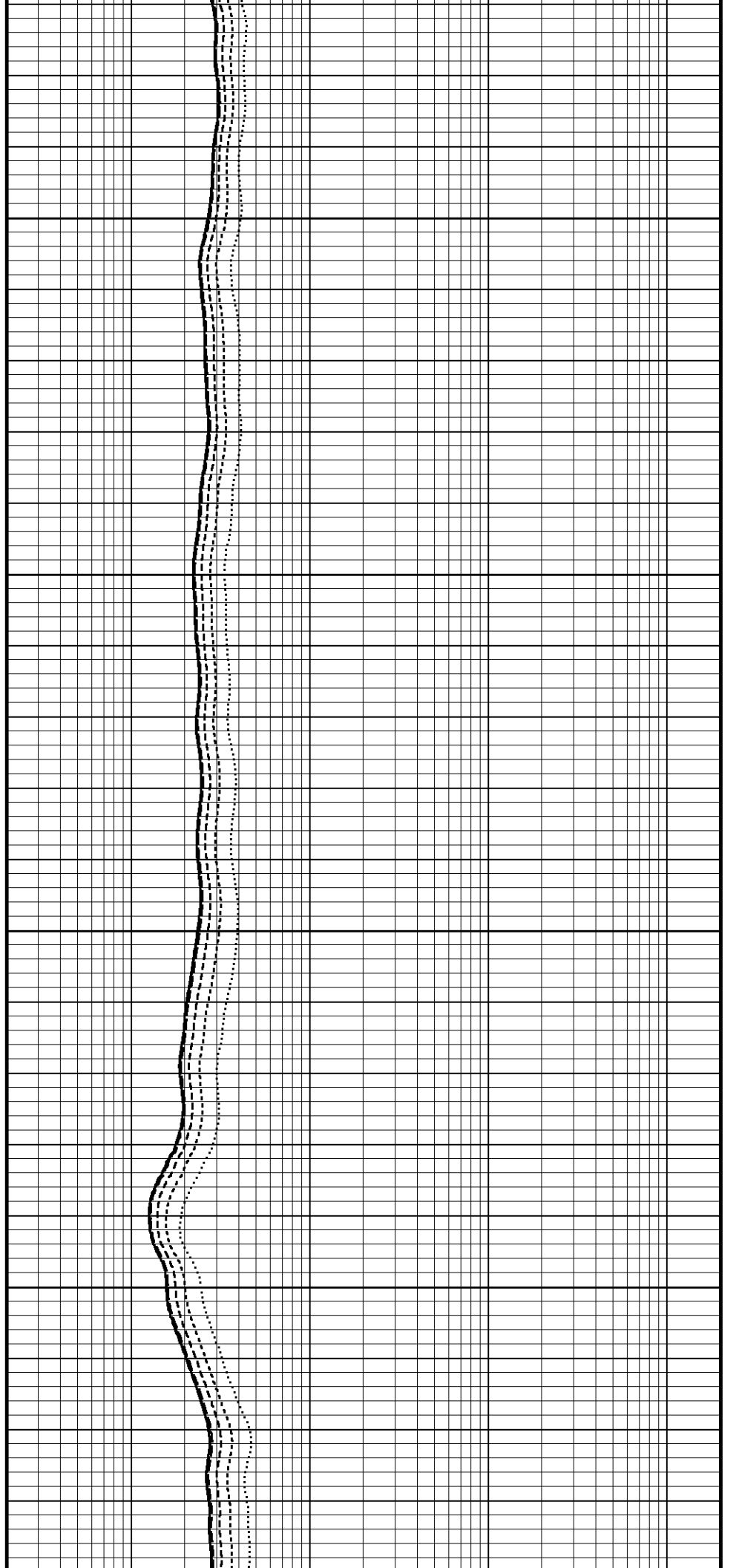
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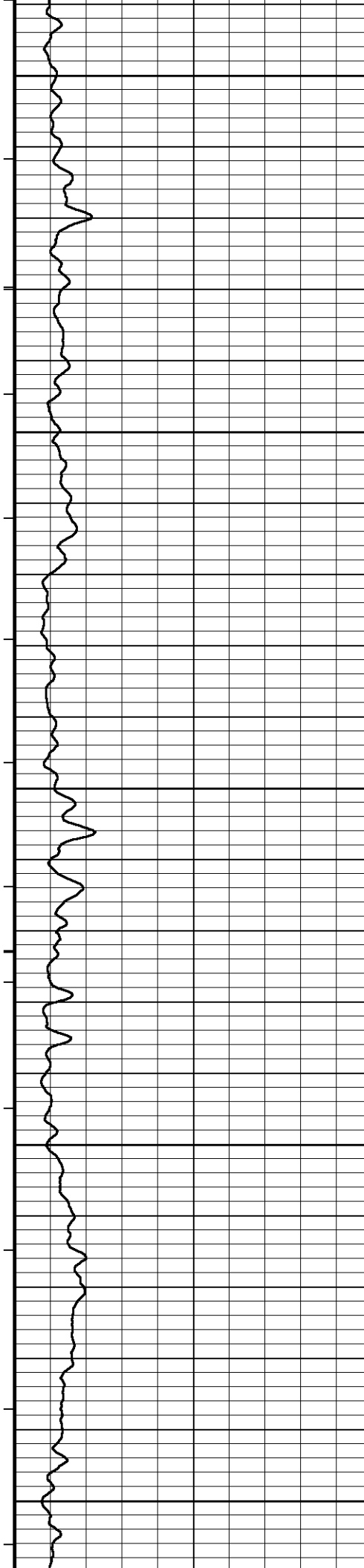
7250

124°

7300

124°





7350

124°

7400

124°

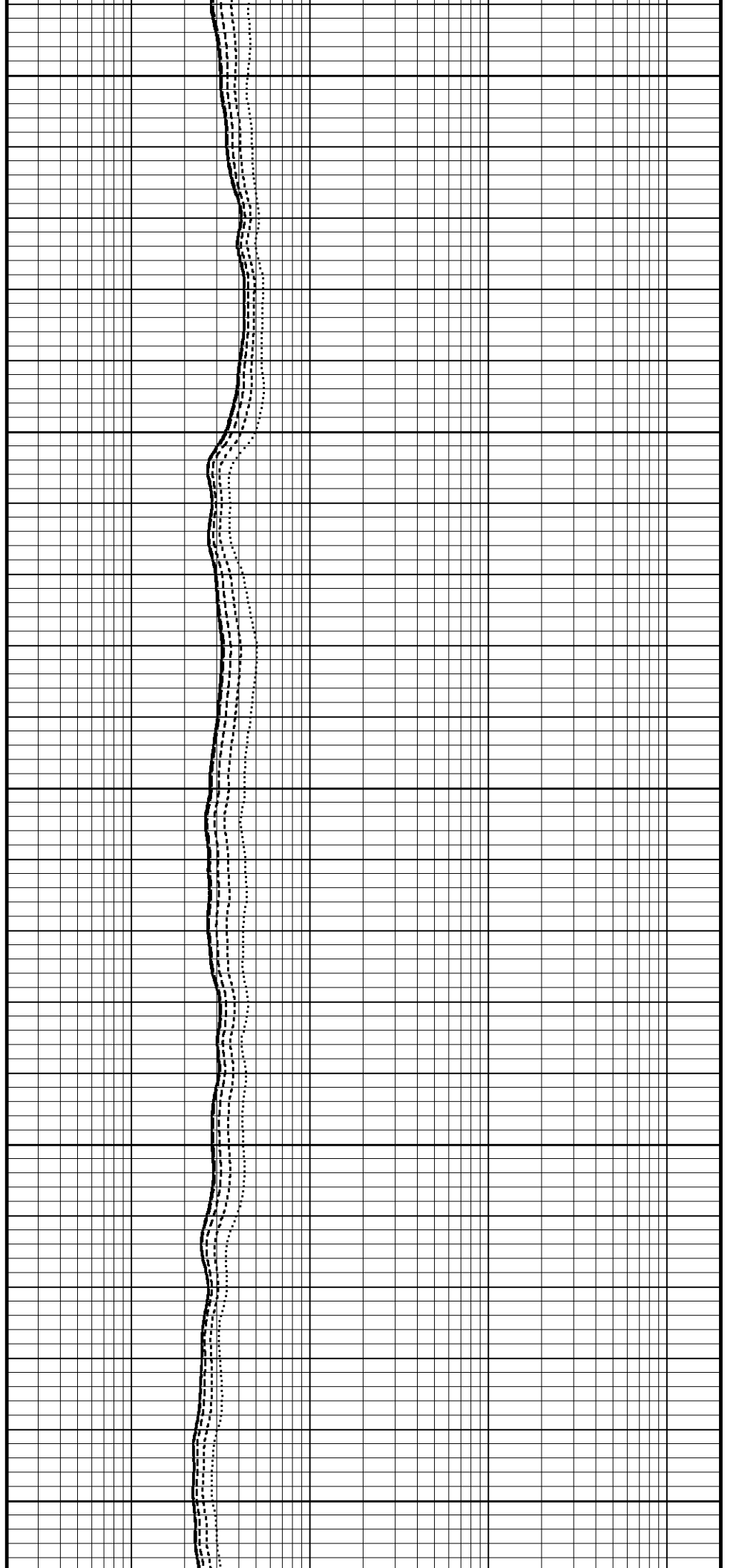
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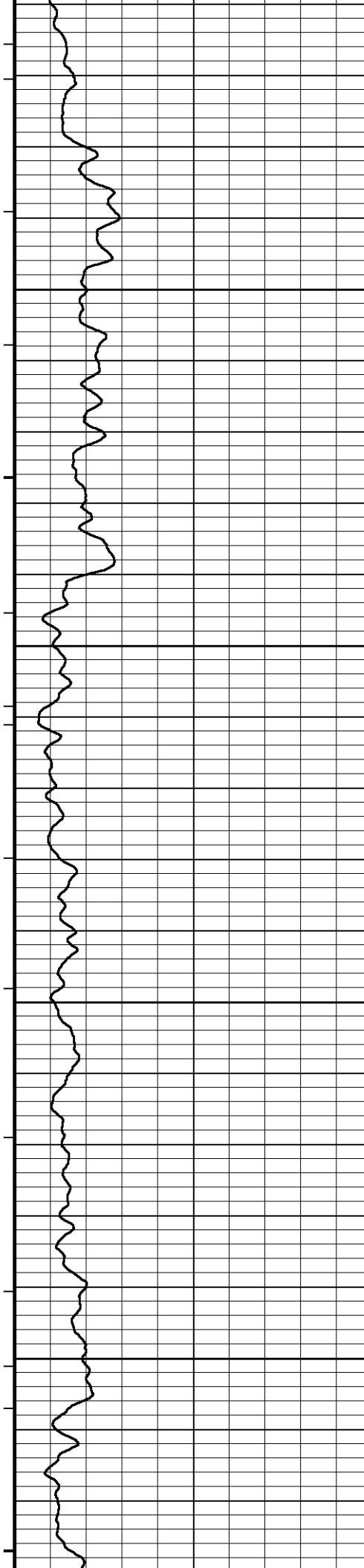
124°

7500

124°

7550





124°

7600

124°

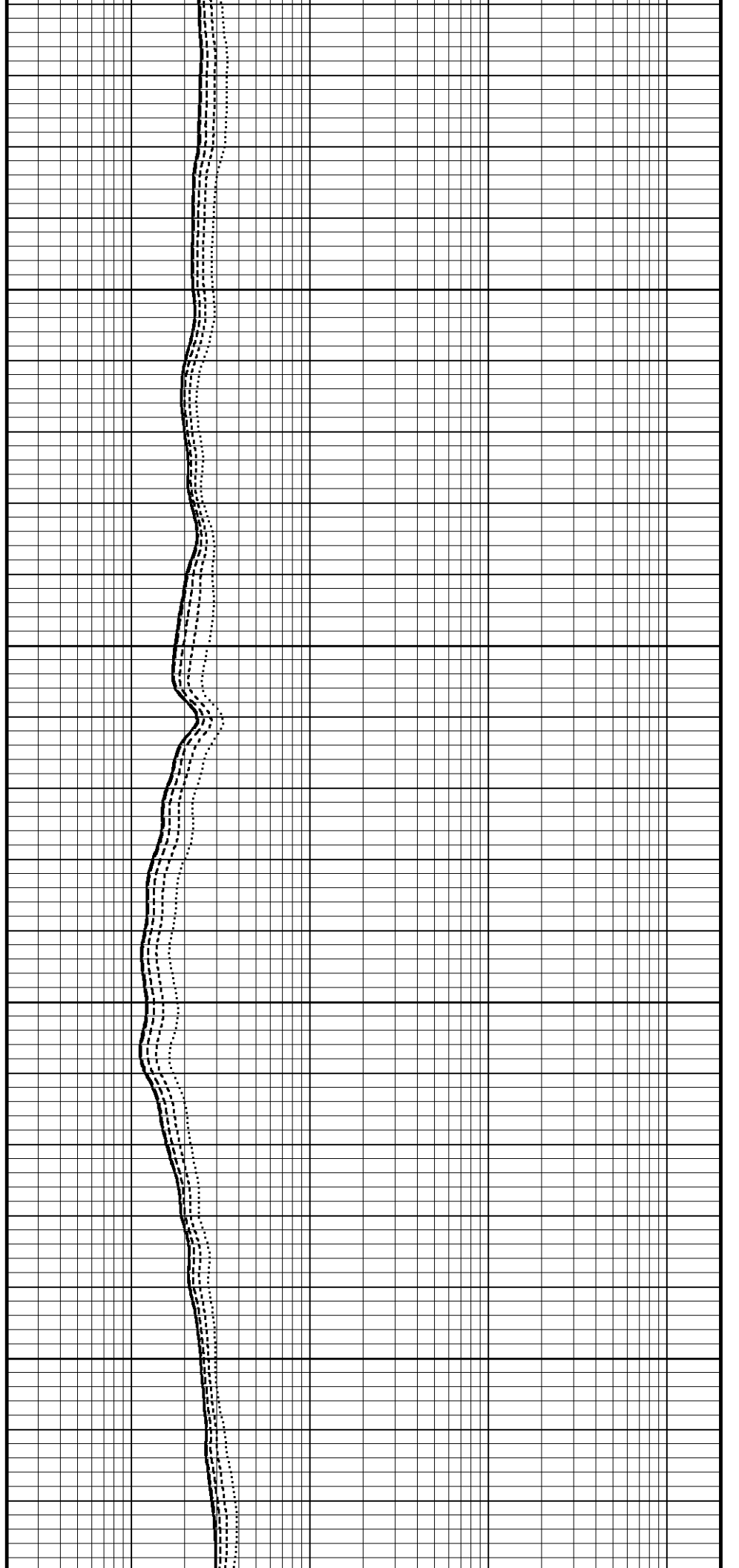
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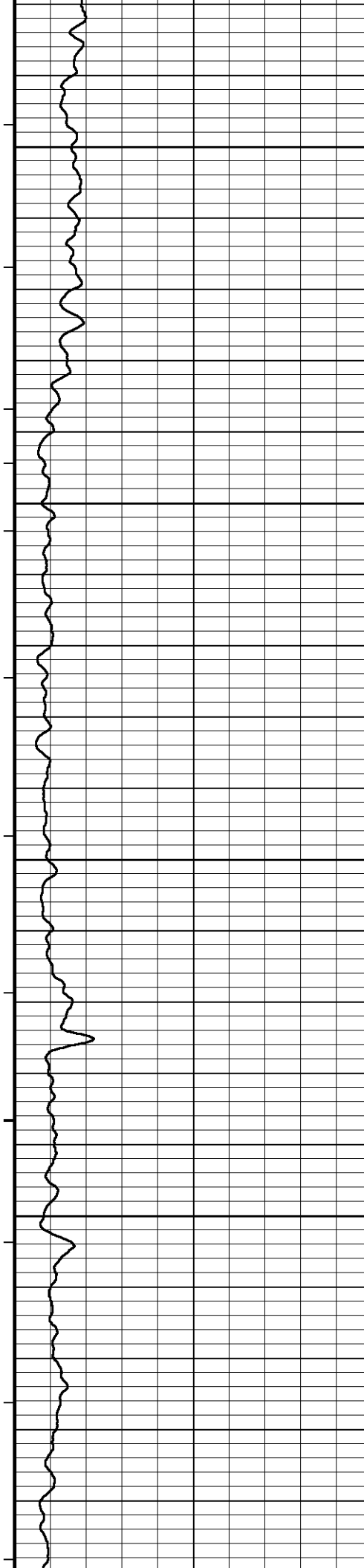
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7700

124°

7750





124°

7800

124°

7850

124°

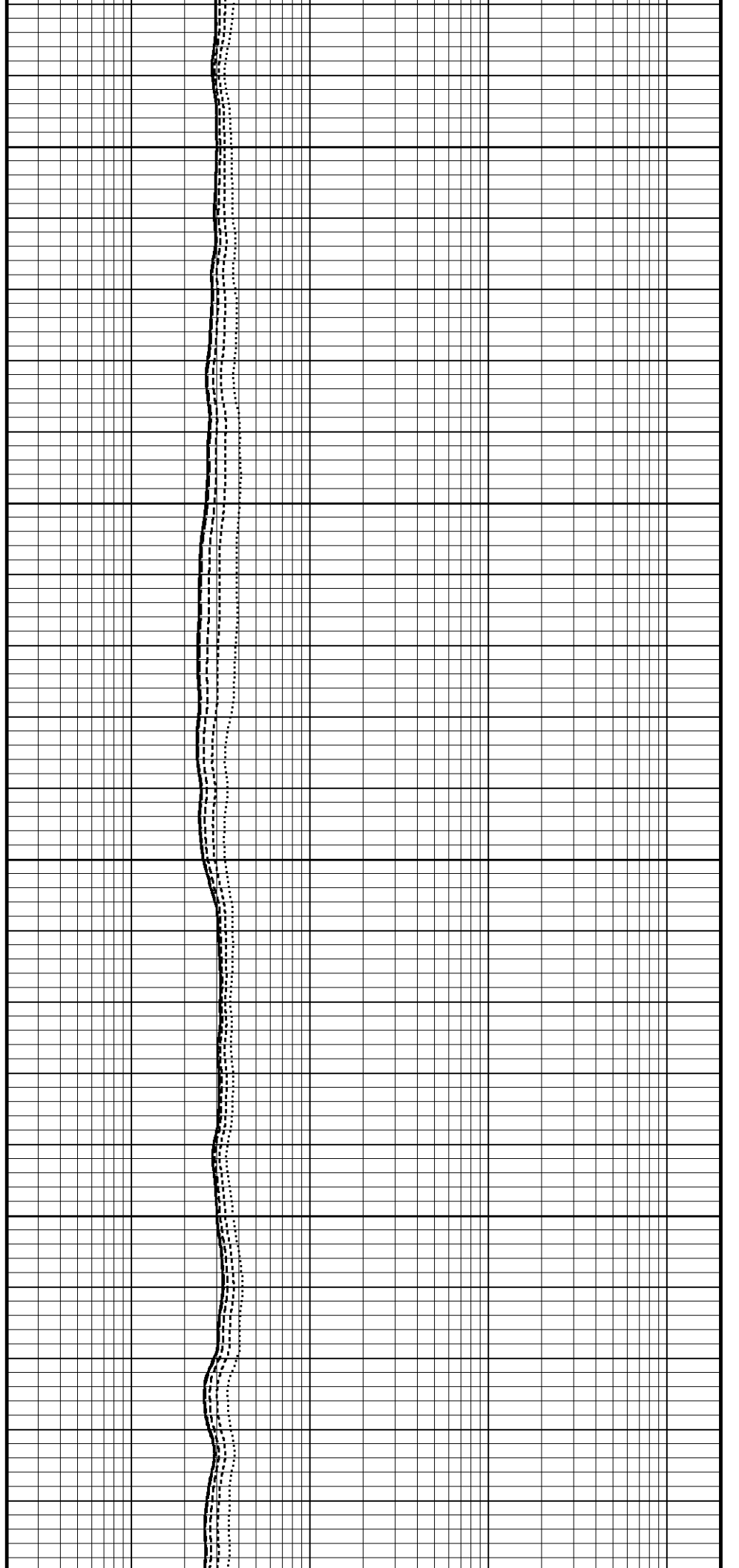
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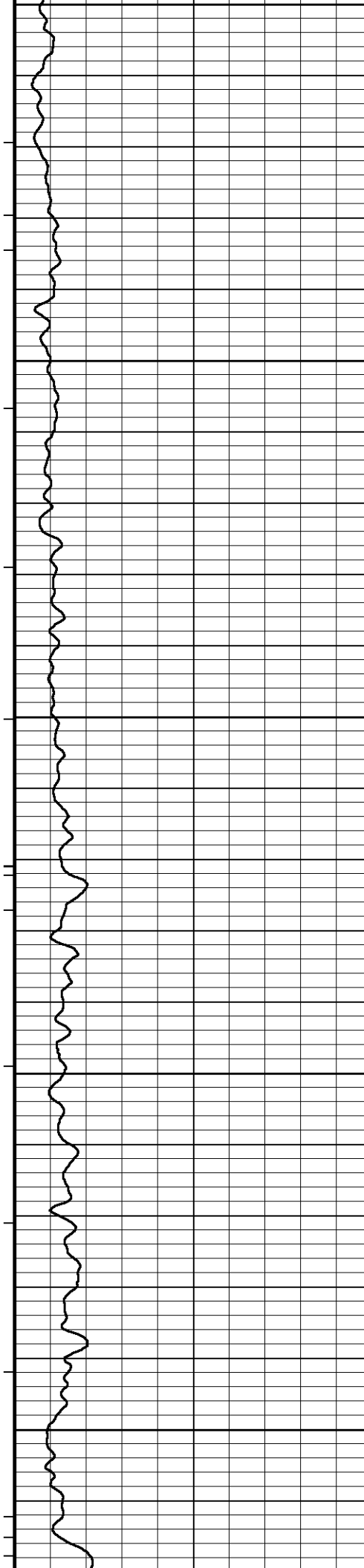
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7950

124°

8000





8000

124°

8050

124°

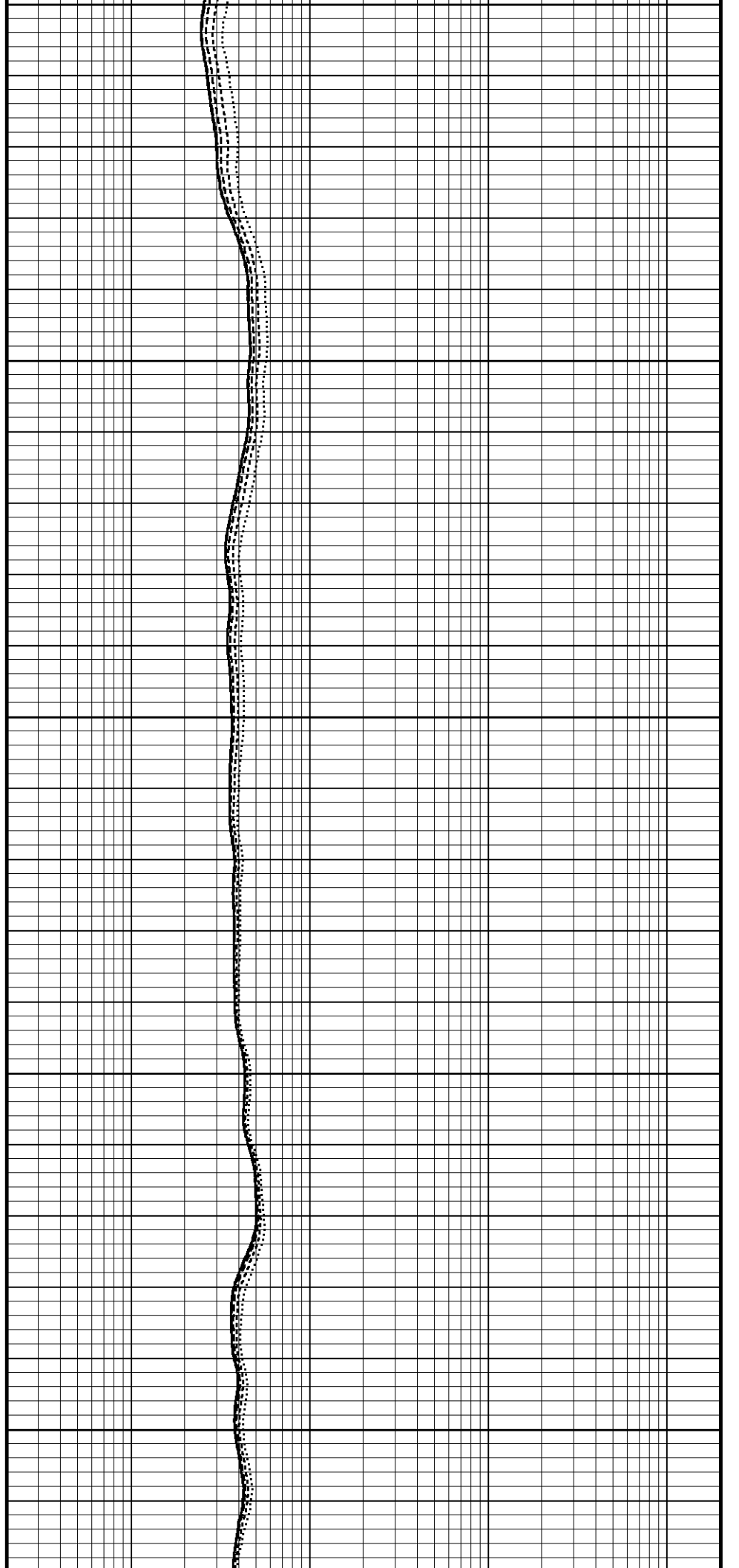
8100

124°

8150

125°

8200



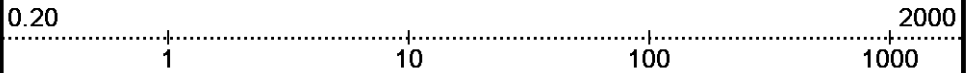
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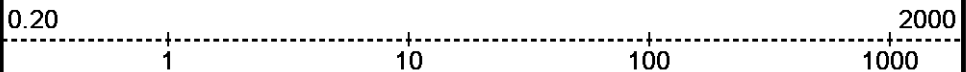
8320

Depth
In
Feet

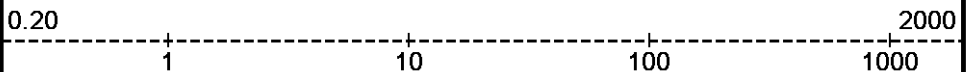
Array Ind. Six Res 20
ohm metres



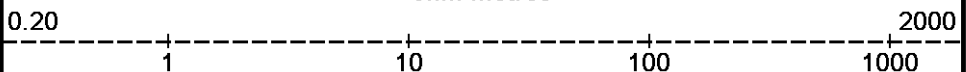
Array Ind. Six Res 30
ohm metres



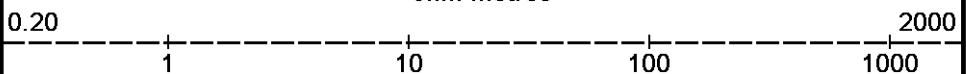
Array Ind. Six Res 40
ohm metres



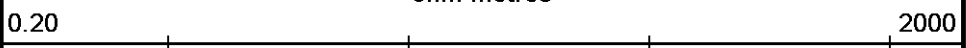
Array Ind. Six Res 60
ohm metres



Array Ind. Six Res 85
ohm metres



Array Ind. Six Res Rt
ohm metres



Timing Marks
every 60.0 sec

MGs Gamma Ray

API

75

225

0 150

150 300

Replay
Scale
1:240

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 12-SEP-2012 18:30
 Filename: C:\Data\Dorado E & PMMS158 Depthlog TC-CMI.dta Recorded on 12-SEP-2012 17:34
 System Versions: Processed with 13.02.6600 Plotted with 13.02.6600

↑ DSC ↑

BEFORE SURVEY CALIBRATION

C:\Data\Dorado E & PMMS158 Depthlog TC-CMI.dta

General Constants All 000

Last Edited on 12-SEP-2012,17:43

General Parameters

Mud Resistivity 2.460 ohm-metres
 Mud Resistivity Temperature 77.000 degrees F
 Water Level 0.000 feet
 Density/Neutron Processing Wet Hole

Hole/Annular Volume and Differential Caliper Parameters

HVOL Method Single Caliper
 HVOL Caliper 1 Density Caliper
 HVOL Caliper 2 N/A
 Annular Volume Diameter 4.500 inches
 Caliper for Differential Caliper Density Caliper

Rwa Parameters

Porosity used Base Density Porosity
 Resistivity used Deep Induction
 RWA Constant A 0.610
 RWA Constant M 2.150

Down-hole Tension Calibration SMS 0

Field Calibration on 27-APR-2009 11:57

Reading No	Measured	0
1	15257.84	0.00
2	16706.18	410.00

Strain Gauge Constants MMS-E.B 158

Last Edited on

Atmospheric Pressure 14.70 psi
 Serial Number 0
 Calibration Date 000000000000
 Base Check Date
 Dead Weight Serial Number 0
 Dead Weight Gravitational Correction 1.0

Temperature	75.0		150.0		250.0		350.0		degrees F
	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.	
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

MMS Parameters MMS-E.B 158

Last Edited on 12-SEP-2012 01:02

Logging Parameters

Firmware Version 2v40
 Caliper Open On MAI
 Caliper Open Delay 0.0 minutes
 Caliper Closed On Unknown
 Caliper Closed Delay N/A minutes
 Sample Rate 1.00 seconds
 Use Deep Sleep No
 Delay Deep Sleep N/A
 Deep Sleep Wake Time N/A minutes
 Deep Sleep Wake on Temperature N/A
 Deep Sleep Wake Temperature N/A degrees C
 Deep Sleep Wake on Pressure N/A

Deep Sleep Wake on Pressure	N/A	
Deep Sleep Wake Pressure	N/A	psi
MMI Pad Pressure	8.0	

Release Parameters

Pulse Duration Base Level	10.0	seconds
Pulse Duration Transition Time	60.0	seconds
Pulse Duration Status Pulse From	20.0	seconds
Pulse Duration Caliper Close From	145.0	seconds
Pulse Duration Caliper Open From	150.0	seconds
Pulse Duration Release Pulse From	215.0	seconds
Pulse Duration Release Pulse To	280.0	seconds
Pulse Release Duration	240.0	seconds
Pulse Discriminator Pressure Band	96.0	seconds
Pulse Pressure Discriminator	213.0	seconds
Use Negative Pulsing	No	
Good Status Reply Open Hole	0.0	seconds
Good Status Reply Cased Hole	20.0	seconds
Bad Status Reply	60.0	seconds
Status Pulse To	80.0	seconds
Caliper Close To	0.0	seconds
Caliper Open To	210.0	seconds

Configuration

MMS,MGS,MDN,MPD,MPD,MIM,MIE,MAI

High Resolution Temperature Constants MGS-C.J 133

Last Edited on

Pre-filter Length	11
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Gamma Calibration MGS-C.J 133

Field Calibration on 03-SEP-2012,15:51

	Measured	Calibrated (API)
Background	38	26
Calibrator (Gross)	1048	722
Calibrator (Net)	1010	696

Gamma Constants MGS-C.J 133

Last Edited on 12-SEP-2012,17:42

Gamma Calibrator Number		
Mud Density	1.02	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm

Neutron Calibration MDN-C.A 423

Base Calibration on 03-JUN-2012 17:50
Field Check on 03-SEP-2012,15:50

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
Ratio	3350	100	3714	110
	33.500		33.764	

Field Calibrator at Base

	Calibrated (cps)
Ratio	1130 1749
	0.646

Field Check

	Calibrated (cps)
Ratio	1130 1755
	0.644

Neutron Constants MDN-C.A 423

Last Edited on 03-SEP-2012,15:49

Neutron Source Id		
Neutron Jig Number		
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.00	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu

Formation Pressure Source	Constant Value	1.80	psi
Temperature Source	MGS External Temperature	N/A	degrees F
Mud Salinity		0.00	kppm
Salinity Correction	Not Applied		
Formation Fluid Salinity Source	Constant Value	140.00	kppm
Barite Mud Correction	Not Applied		

Accelerometer Parameters MIE-A.J 230

Date Of Last Accelerometer Calibration	11-SEP-2012,20:41		
Slope	X Accelerometer	Y Accelerometer	Z Accelerometer
Offset	-1.109690	-1.109392	-1.087017
	0.005069	0.004308	0.003621

Accelerometer Constants MIE-A.J 230

Last Edited on 11-SEP-2012,20:40

Accelerometer Calibrator Number	000			
Accelerometer Temperature Characterisation				
X Accelerometer				
Serial Number	1050			
Calibration Date	25-Apr-2011			
Bias(g)	B0	B1	B2	B3
	0.00000e+000	-1.70214e-005	1.07323e-008	1.12542e-010
Scale Factor(mA/g)	SF0	SF1	SF2	SF3
	3.00000e+000	2.70937e-004	3.09720e-007	1.08406e-009
Y Accelerometer				
Serial Number	1051			
Calibration Date	25-Apr-2011			
Bias(g)	B0	B1	B2	B3
	0.00000e+000	4.43984e-006	-2.75303e-008	2.47287e-010
Scale Factor(mA/g)	SF0	SF1	SF2	SF3
	3.00000e+000	2.53744e-004	3.58624e-007	1.11251e-009
Z Accelerometer				
Serial Number	1049			
Calibration Date	25-Apr-2011			
Bias(g)	B0	B1	B2	B3
	0.00000e+000	1.78865e-005	-5.43849e-008	3.47002e-010
Scale Factor(mA/g)	SF0	SF1	SF2	SF3
	3.00000e+000	2.76777e-004	3.16407e-007	1.43459e-009

Navigation Constants MIE-A.J 230

Last Edited on

Magnetic Declination	0.00	degrees	East
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Imager Pad Check MIE-A.J 230

Field Check on

Pad 1	Pad Not Tested	Pad 5	Pad Not Tested
Pad 2	Pad Not Tested	Pad 6	Pad Not Tested
Pad 3	Pad Not Tested	Pad 7	Pad Not Tested
Pad 4	Pad Not Tested	Pad 8	Pad Not Tested

Compact Micro Imager Constants MIE-A.J 230

Last Edited on 11-SEP-2012,20:41

Sonde Configuration	Imager Mode	degrees
Arm-Pad Kit	Normal Pads (12.25 in)	
Centre Pad 1 Rotational Offset	0.00	
Image/Borehole Ovality Reference	Azimuth of Pad 1	degrees
Non Active Buttons	Omit	feet
Search Angle	0.00	feet
Correlation Interval	3.28	mAmp
Correlation Step	1.64	mAmp
Current Offset	0.0000	
Squasher Start	N/A	
Image Processing	Enabled	

Caliper Calibration MIE-A.J 230

Base Calibration on 21-NOV-2011 12:53

Base Calibration

Reading No	Pads 1-5 Meas.	Pads 3-7 Meas.	Calibrator Size (in)
1	27019	26748	5.96
2	37620	37049	7.97
3	47195	46738	9.84
4	58917	58501	11.91
5	0	0	0.00

Reading No	Pad 2 Meas.	Pad 4 Meas.	Pad 6 Meas.	Pad 8 Meas.	Calibrator Size (in)
1	25158	24956	25125	25484	5.96
2	34223	33744	33876	34474	7.97
3	42481	41822	41997	42779	9.84
4	52463	52007	51986	52627	11.91
5	0	0	0	0	0.00

Field Calibration

Measured	Measured	Actual
0	0	0
0.00	0.00	0.00

Measured	Measured	Measured	Measured	Actual
0	0	0	0	0
0.00	0.00	0.00	0.00	0.00

Caliper Constants MIE-A.J 230

Last Edited on

Caliper Difference for BRKT 3.000 mm

Magnetometer Parameters MIE-A.J 230

Date Of Last Magnetometer Calibration 21-NOV-2011,12:41

	X Magnetometer	Y Magnetometer	Z Magnetometer
Slope	-1.000000	-1.004357	-0.999282
Offset	0.010323	-0.015586	0.012647

Magnetometer Constants MIE-A.J 230

Last Edited on

Magnetometer Calibrator Number 000

Induction Calibration MAI-B.J 394

Base Calibration on 08-MAR-2012 11:57

Field Check on 03-SEP-2012 15:49

Base Calibration

Test Loop Calibration Channel	Measured		Calibrated (mmho/m)	
	Low	High	Low	High
1	16.7	473.5	9.3	966.2
2	5.6	368.9	7.6	821.4
3	3.3	256.4	5.2	566.0
4	1.8	133.4	2.6	279.2

Array Temperature 71.8 Deg F

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	13.6	3831.2
2	0.0	0.0	31.1	3649.6
3	0.0	0.0	28.1	3082.5
4	0.0	0.0	19.0	2068.2
Deep	0.0	0.0	15.8	1911.8
Medium	0.0	0.0	41.9	4142.5
Shallow	0.0	0.0	48.4	5534.9

Array Temperature 0.0 90.4 Deg F

Induction Constants MAI-B.J 394

Last Edited on 12-SEP-2012,17:41

Induction Model	RtAP-WBM
Caliper for Borehole Corr.	Density Caliper
Hole Size for Borehole Correction	N/A inches
Tool Centred	No
Stand-off Type	Fins
Stand-off	0.50 inches
Number of Fins on Stand-off	6.0000
Stand-off Fin Angle	60.00 degrees

Stand-off Fin Angle		0.5000	degrees
Stand-off Fin Width			inches
Borehole Corr. Rm Source		Temperature Corr	
Temp. for Rm Corr.	MGS	External Temperature	
Squasher Start		0.0030	mhos/metre
Squasher Offset		N/A	mhos/metre

Borehole Normalisation			
DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000

Calibration Site Corrections			
Channel 1		0.00	mmhos/metre
Channel 2		0.00	mmhos/metre
Channel 3		0.00	mmhos/metre
Channel 4		0.00	mmhos/metre

Apparent Porosity and Water Saturation Constants			
Archie Constant (A)		1.00	
Cementation Exponent (M)		2.00	
Saturation Exponent (N)		2.00	
Saturation of Water for Apor		100.00	percent
Resistivity of Water for Apor and Sw		0.05	ohm-m
Resistivity of Mud Filtrate for Sw		0.00	ohm-m
Source for Rt		0.00	
Source for Rxo		0.00	

High Resolution Temperature Calibration MAI-B.J 394

Field Calibration on 08-MAR-2012 12:02

	Measured	Calibrated(Deg F)
Lower	10.00	50.00
Upper	100.00	212.00

High Resolution Temperature Constants MAI-B.J 394

Last Edited on

Pre-filter Length	11
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Caliper Calibration MPD-C.J 395

Base Calibration on 31-AUG-2012 14:46

Field Calibration on

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	15729	3.99
2	25280	5.97
3	35136	7.99
4	44443	9.86
5	55472	11.93
6	N/A	N/A

Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	0.00	0.00

Photo Density Calibration MPD-C.J 395

Base Calibration on 10-SEP-2012 16:04

Field Check on

Density Calibration				
Base Calibration				
		Measured	Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	57768	27896	60364	31945
Reference 2	23681	2724	25079	2547

Field Check at Base	1235.8	1484.9
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Field Check	0.0	0.0
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PE Calibration			
Base Calibration			
WG	Measured	Calibrated	
	W/L	Ratio	

	WS	WH	Ratio	Ratio
Background	226	1106		
Reference 1	26774	57552	0.470	0.399
Reference 2	7072	23542	0.305	0.273

Field Check at Base
226.2 1106.0

Field Check
0.0 0.0

Density Constants MPD-C.J 395

Last Edited on 12-SEP-2012,17:42

Density Source Id		
Nylon Calibrator Number		
Aluminium Calibrator Number		
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.02	gm/cc
Mud Density Z/A Multiplier	1.11	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Hybrid	
Matrix Density (gm/cc)	Depth (ft)	
2.71	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	

DOWNHOLE EQUIPMENT

C:\Data\Dorado E & PIMMS158 Depthlog TC-CMI.dta

SRT
MLK-A 1 LG: 4.87 ft WT: 30.9 lb OD: 2.24 in

Empty Battery
MLK-A 2 LG: 14.23 ft WT: 30.9 lb OD: 2.24 in

Empty Battery
MLK-A 3 LG: 14.23 ft WT: 30.9 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 476 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MBS-F.A 200v Compact Battery Sub
MBS-F.A 151 LG: 17.06 ft WT: 123.5 lb OD: 2.24 in

Compact Memory Sub E.B
MMS-E.B 158 LG: 5.20 ft WT: 37.5 lb OD: 2.24 in

Compact Tool Isolator sub.
MTI-B.A 63 LG: 1.54 ft WT: 13.2 lb OD: 2.24 in

Compact Short Gamma
MGS-C.J 133 LG: 3.41 ft WT: 24.3 lb OD: 2.24 in



84.74 ft GRGM - MGS Gamma Ray
82.75 ft GSXT - MGS External Temperature

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 471 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
 SHA-J.A 450 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub
 MIS-D.A 310 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact Neutron
 MDN-C.A 423 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
 MPD-C.J 395 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub
 MIS-D.A 609 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
 SHA-J.A 454 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
 SKJ-E.B 456 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub
 MIS-E.B 572 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
 SKJ-E.B 469 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-A.A Compact Inline Bowspring sub
 MIS-A.A 77 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact MMI Memory Section
 MIM-A.A 157 LG: 4.65 ft WT: 26.5 lb OD: 2.24 in

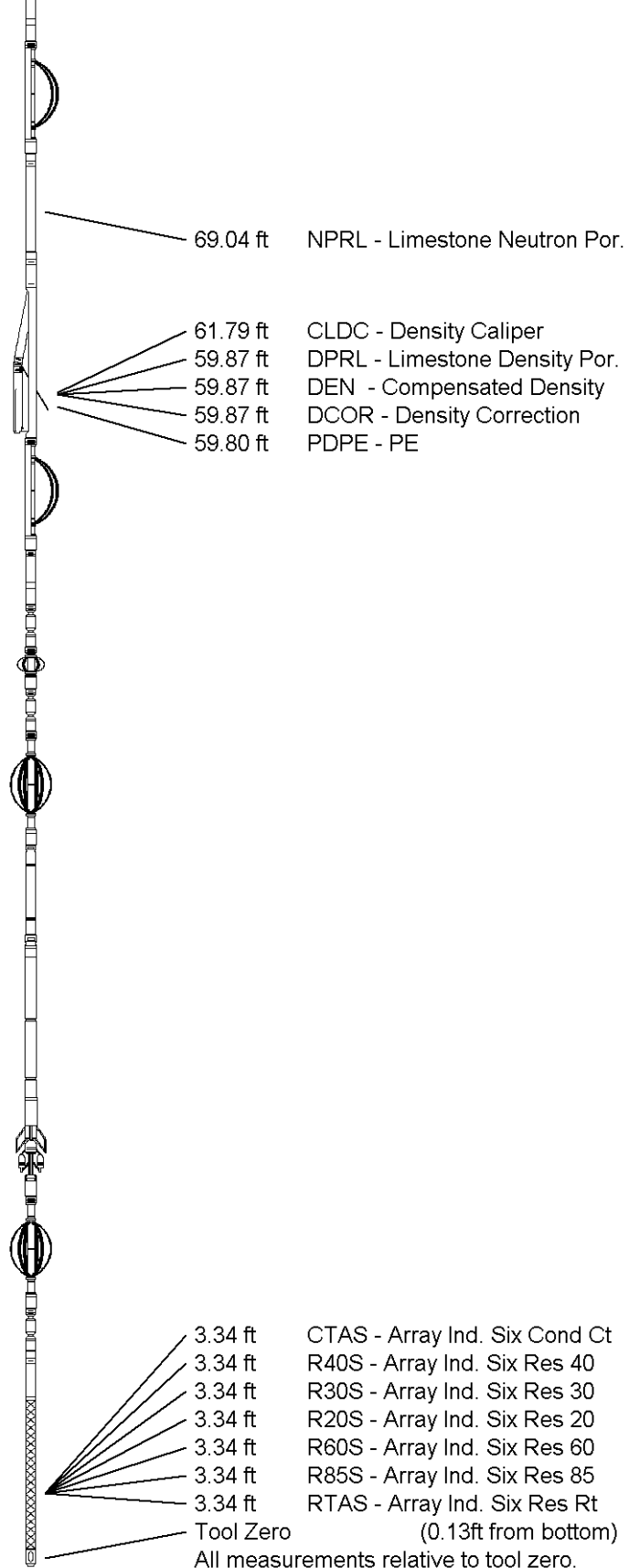
Compact MMI Electrode Section
 MIE-A.J 230 LG: 13.96 ft WT: 99.2 lb OD: 4.09 in

MIS-D.A Compact Inline Bowspring sub
 MIS-D.A 593 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
 SKJ-E.B 478 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Induction
 MAI-B.J 394 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 144.96 ft Weight: 919.3 lb



COMPANY	DORADO E&P PARTNERS, LLC.
WELL	PREISSER 25-9-6-1H
FIELD	WILDCAT-MISSISSIPPIAN
PROVINCE/COUNTY	RENO
COUNTRY/STATE	USA / KANSAS

Elevation Kelly Bushing	1733.00	feet	First Reading	8300.00	feet
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Elevation Drill Floor 1733.00 feet
Elevation Ground Level 1721.00 feet

Depth Driller 8350.00 feet
Depth Logger 8306.00 feet



Weatherford®

CML MESSENGER SHUTTLE COMPACT ARRAY INDUCTION LOG

